



## IES FLOOD REPORT

PHOTOMETRIC FILENAME : PFK SEL290 76 UV 8SEL [210W, 3000K].IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] BLC2112016E-J  
[ISSUEDATE] 2021-12-15 14:37  
[MANUFAC] LumenFocus, LLC.  
[LUMCAT] PFK SEL290 76 UV 8SEL [210W, 3000K]  
[LUMINAIRE]  
[LAMPCAT]  
[LAMP]  
[ \_VOLTAGE] 120.0 V  
[ \_CURRENT] 2.435 A  
[ \_POWERFACTOR] 0.998  
[ \_THD] 2.33  
[TESTLAB] UTEST TECHNICAL LABORATORY  
[ \_TESTINST] GPM-3000  
[ \_TESTDIST] 14.140 m [K=1.0000]  
[ \_TESTTEMPERATURE] 25.8 °C  
[ \_TESTHUMIDITY]  
[ \_TESTOPERATOR]  
[BALLAST]  
[BALLASTCAT]

Note: Candela values converted from Type-C to Type-B

### CHARACTERISTICS

NEMA Type	7 H x 6 V
Maximum Candela	12359.263
Maximum Candela Angle	1H 1V
Horizontal Beam Angle (50%)	105.5
Vertical Beam Angle (50%)	85.9
Horizontal Field Angle (10%)	144.4
Vertical Field Angle (10%)	120.0
Lumens Per Lamp	26114.47 (1 lamp)
Total Lamp Lumens	26114.47
Beam Lumens	20441
Beam Efficiency	78 %
Field Lumens	25259
Field Efficiency	97 %
Spill Lumens	944
Luminaire Lumens	26203
Total Efficiency	100 %
Total Luminaire Watts	211.2
Ballast Factor	1.00

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DEG.	HOR.	DEG.	VERT.
90	.077	90	0
85	24.706	85	10.552
75	755.374	75	169.443
65	2671.374	65	650.38
55	5555.721	55	1808.514
47.5	7595.815	47.5	3988.018
42.5	9039.407	42.5	6109.031
37.5	9878.138	37.5	7962.623
33	10504.305	33	9275.082
29	10964.352	29	10227.839
25.5	11284.815	25.5	10874.94
22.5	11534.004	22.5	11295.69
19.5	11737.477	19.5	11624.023
17	11892.661	17	11844.374
15	11999.728	15	11978.162
13	12100.259	13	12084.847
11	12168.98	11	12164.436
9	12223.502	9	12232.62
7	12266.385	7	12291.657
5	12297.334	5	12322.474
3	12326.584	3	12341.297
1	12353.563	1	12354.989
0	12353.563	0	12353.563
-1	12343.055	-1	12346.142
-3	12293.076	-3	12322.754
-5	12261.274	-5	12283.099
-7	12216.407	-7	12228.341
-9	12151.655	-9	12169.575
-11	12076.405	-11	12114.23
-13	12004.839	-13	12030.368
-15	11911.404	-15	11946.787
-17	11807.19	-17	11841.529
-19.5	11642.057	-19.5	11687.921
-22.5	11390.738	-22.5	11444.166
-25.5	11139.42	-25.5	11106.563
-29	10786.579	-29	10619.489
-33	10336.759	-33	9835.321
-37.5	9722.515	-37.5	8536.561
-42.5	8891.88	-42.5	6565.159
-47.5	7849.545	-47.5	4346.292
-55	5536.412	-55	1839.618
-65	2513.476	-65	618.726
-75	692.903	-75	167.729
-85	27.552	-85	20.258
-90	0	-90	0

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**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 13101.25

Total Field Lumens (one side of beam only) = 12629.41

\* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>1</u>	<u>3</u>	<u>5</u>	<u>7</u>	<u>9</u>	<u>11</u>	<u>13</u>	<u>15</u>	<u>17</u>
90										
85	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
75	0.27	0.55	0.55	0.54	0.53	0.52	0.51	0.49	0.48	0.57
65	1.25	2.51	2.50	2.48	2.44	2.40	2.34	2.27	2.19	2.61
55	3.75	7.56 *	7.57 *	7.52 *	7.43	7.30	7.13	6.93	6.68	8.01
47.5	6.64 *	13.40 *	13.45 *	13.39 *	13.26 *	13.04 *	12.75 *	12.38 *	11.93 *	14.41 *
42.5	7.71 *	15.52 *	15.56 *	15.50 *	15.34 *	15.09 *	14.79 *	14.37 *	13.88 *	16.77 *
37.5	10.74 *	21.54 *	21.54 *	21.44 *	21.21 *	20.86 *	20.46 *	19.97 *	19.44 *	23.56 *
33	11.83 *	23.69 *	23.66 *	23.53 *	23.30 *	22.94 *	22.51 *	22.07 *	21.62 *	26.30 *
29	11.89 *	23.80 *	23.74 *	23.59 *	23.37 *	23.05 *	22.67 *	22.28 *	21.85 *	26.60 *
25.5	11.25 *	22.50 *	22.43 *	22.28 *	22.07 *	21.79 *	21.47 *	21.12 *	20.72 *	25.25 *
22.5	10.13 *	20.25 *	20.18 *	20.05 *	19.86 *	19.63 *	19.36 *	19.05 *	18.70 *	22.80 *
19.5	10.47 *	20.93 *	20.85 *	20.72 *	20.54 *	20.31 *	20.04 *	19.73 *	19.37 *	23.64 *
17	8.94 *	17.85 *	17.78 *	17.67 *	17.52 *	17.34 *	17.11 *	16.85 *	16.55 *	20.19 *
15	7.26 *	14.49 *	14.44 *	14.35 *	14.23 *	14.08 *	13.90 *	13.70 *	13.44 *	16.39 *
13	7.33 *	14.64 *	14.58 *	14.50 *	14.38 *	14.23 *	14.06 *	13.84 *	13.58 *	16.56 *
11	7.39 *	14.76 *	14.70 *	14.62 *	14.51 *	14.36 *	14.17 *	13.95 *	13.69 *	16.70 *
9	7.43 *	14.85 *	14.80 *	14.72 *	14.60 *	14.45 *	14.26 *	14.03 *	13.77 *	16.81 *
7	7.47 *	14.92 *	14.87 *	14.79 *	14.67 *	14.52 *	14.32 *	14.10 *	13.84 *	16.89 *
5	7.50 *	14.97 *	14.92 *	14.85 *	14.72 *	14.56 *	14.37 *	14.14 *	13.89 *	16.95 *
3	7.51 *	15.01 *	14.96 *	14.88 *	14.75 *	14.59 *	14.40 *	14.17 *	13.92 *	16.99 *
1	7.52 *	15.03 *	14.97 *	14.88 *	14.76 *	14.60 *	14.41 *	14.19 *	13.94 *	17.02 *
0	3.76 *	7.51 *	7.48 *	7.43 *	7.37 *	7.30 *	7.20 *	7.10 *	6.97 *	8.51 *
-1	3.76 *	7.51 *	7.48 *	7.43 *	7.37 *	7.30 *	7.20 *	7.10 *	6.97 *	8.51 *
-3	7.52 *	15.02 *	14.97 *	14.88 *	14.76 *	14.60 *	14.41 *	14.19 *	13.94 *	17.02 *
	7.50 *	14.99 *	14.94 *	14.85 *	14.74 *	14.59 *	14.40 *	14.18 *	13.92 *	17.00 *

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**LUMENS TABULATION - (Cont.)**

<b>-5</b>	7.47 *	14.94 *	14.89 *	14.80 *	14.68 *	14.54 *	14.35 *	14.14 *	13.89 *	16.96 *
<b>-7</b>	7.44 *	14.87 *	14.83 *	14.73 *	14.61 *	14.46 *	14.28 *	14.07 *	13.83 *	16.89 *
<b>-9</b>	7.40 *	14.79 *	14.75 *	14.66 *	14.53 *	14.37 *	14.19 *	13.98 *	13.74 *	16.79 *
<b>-11</b>	7.36 *	14.70 *	14.66 *	14.57 *	14.44 *	14.28 *	14.09 *	13.87 *	13.63 *	16.66 *
<b>-13</b>	7.30 *	14.60 *	14.55 *	14.46 *	14.34 *	14.17 *	13.97 *	13.76 *	13.52 *	16.51 *
<b>-15</b>	7.25 *	14.48 *	14.43 *	14.34 *	14.22 *	14.05 *	13.85 *	13.63 *	13.39 *	16.35 *
<b>-17</b>	8.96 *	17.89 *	17.83 *	17.72 *	17.57 *	17.37 *	17.12 *	16.84 *	16.53 *	20.17 *
<b>-19.5</b>	10.57 *	21.11 *	21.03 *	20.90 *	20.72 *	20.48 *	20.19 *	19.86 *	19.48 *	23.75 *
<b>-22.5</b>	10.30 *	20.59 *	20.52 *	20.39 *	20.22 *	19.99 *	19.70 *	19.37 *	18.99 *	23.13 *
<b>-25.5</b>	11.58 *	23.16 *	23.08 *	22.95 *	22.75 *	22.48 *	22.15 *	21.76 *	21.32 *	25.96 *
<b>-29</b>	12.47 *	24.94 *	24.87 *	24.72 *	24.50 *	24.20 *	23.81 *	23.36 *	22.86 *	27.79 *
<b>-33</b>	12.60 *	25.24 *	25.19 *	25.06 *	24.83 *	24.48 *	24.02 *	23.51 *	22.98 *	27.91 *
<b>-37.5</b>	11.52 *	23.12 *	23.13 *	23.04 *	22.81 *	22.44 *	22.00 *	21.42 *	20.83 *	25.27 *
<b>-42.5</b>	8.34 *	16.78 *	16.85 *	16.80 *	16.65 *	16.39 *	16.04 *	15.55 *	14.99 *	18.13 *
<b>-47.5</b>	7.10 *	14.34 *	14.44 *	14.43 *	14.33 *	14.12 *	13.81 *	13.38 *	12.85 *	15.48 *
<b>-55</b>	3.76	7.60 *	7.65 *	7.63 *	7.57 *	7.46 *	7.31	7.09	6.83	8.18
<b>-65</b>	1.20	2.40	2.40	2.38	2.35	2.31	2.26	2.19	2.12	2.54
<b>-75</b>	0.29	0.57	0.57	0.57	0.56	0.55	0.54	0.52	0.51	0.61
<b>-85</b>	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
<b>-90</b>	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
<b>Total</b>	319.75	639.95	638.64	635.10	629.44	621.62	611.98	600.55	587.60	715.19

**Vert. Horizontal Angles**

<b>Angles</b>	<b>19.5</b>	<b>22.5</b>	<b>25.5</b>	<b>29</b>	<b>33</b>	<b>37.5</b>	<b>42.5</b>	<b>47.5</b>	<b>55</b>	<b>65</b>
<b>90</b>	0.02	0.02	0.03	0.03	0.03	0.02	0.02	0.03	0.03	0.01
<b>85</b>	0.65	0.60	0.65	0.66	0.64	0.59	0.49	0.55	0.39	0.14
<b>75</b>	2.97	2.80	3.02	3.08	2.95	2.66	2.22	2.59	1.81	0.53
<b>65</b>	9.26	8.91	9.76	10.01	9.45	8.57	7.21	8.13	5.57	1.60
<b>55</b>	16.73 *	16.03 *	17.44 *	17.69 *	16.65 *	15.06 *	12.12 *	12.91	8.63	2.47
<b>47.5</b>	19.33 *	18.34 *	19.87 *	20.25 *	19.20 *	17.15 *	13.27 *	13.52 *	8.76	2.47

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**LUMENS TABULATION - (Cont.)**

<b>42.5</b>	27.10 *	25.64 *	27.80 *	28.56 *	27.46 *	24.54 *	18.69 *	18.61 *	11.68 *	3.23
<b>37.5</b>	30.33 *	28.78 *	31.32 *	32.33 *	31.49 *	28.59 *	21.89 *	21.60 *	13.29 *	3.60
<b>33</b>	30.75 *	29.28 *	31.98 *	33.25 *	32.77 *	30.22 *	23.47 *	23.16 *	14.08 *	3.80
<b>29</b>	29.24 *	27.89 *	30.51 *	31.90 *	31.79 *	29.68 *	23.36 *	23.17 *	14.00 *	3.78
<b>25.5</b>	26.41 *	25.20 *	27.64 *	29.03 *	29.11 *	27.57 *	21.90 *	21.71 *	13.18 *	3.57
<b>22.5</b>	27.36 *	26.12 *	28.72 *	30.28 *	30.55 *	29.15 *	23.23 *	23.15 *	14.22 *	3.86 *
<b>19.5</b>	23.37 *	22.32 *	24.59 *	26.02 *	26.34 *	25.14 *	20.10 *	20.29 *	12.59 *	3.42 *
<b>17</b>	18.98 *	18.16 *	20.03 *	21.24 *	21.51 *	20.55 *	16.51 *	16.80 *	10.50 *	2.86 *
<b>15</b>	19.19 *	18.37 *	20.29 *	21.52 *	21.80 *	20.88 *	16.86 *	17.24 *	10.85 *	2.97 *
<b>13</b>	19.36 *	18.54 *	20.49 *	21.73 *	22.03 *	21.15 *	17.15 *	17.64 *	11.16 *	3.06 *
<b>11</b>	19.49 *	18.68 *	20.64 *	21.90 *	22.22 *	21.36 *	17.38 *	17.99 *	11.45 *	3.15 *
<b>9</b>	19.60 *	18.77 *	20.75 *	22.03 *	22.37 *	21.54 *	17.57 *	18.28 *	11.70 *	3.23 *
<b>7</b>	19.67 *	18.84 *	20.83 *	22.12 *	22.48 *	21.68 *	17.73 *	18.53 *	11.92 *	3.30 *
<b>5</b>	19.72 *	18.89 *	20.89 *	22.18 *	22.56 *	21.78 *	17.84 *	18.73 *	12.13 *	3.37 *
<b>3</b>	19.74 *	18.92 *	20.92 *	22.22 *	22.61 *	21.85 *	17.92 *	18.88 *	12.28 *	3.41 *
<b>1</b>	9.88 *	9.46 *	10.47 *	11.12 *	11.31 *	10.94 *	8.98 *	9.47 *	6.18 *	1.72 *
<b>0</b>	9.88 *	9.46 *	10.47 *	11.12 *	11.31 *	10.94 *	8.98 *	9.47 *	6.18 *	1.72 *
<b>-1</b>	19.74 *	18.92 *	20.92 *	22.23 *	22.61 *	21.86 *	17.94 *	18.91 *	12.31 *	3.42 *
<b>-3</b>	19.72 *	18.90 *	20.89 *	22.19 *	22.57 *	21.81 *	17.88 *	18.80 *	12.19 *	3.38 *
<b>-5</b>	19.67 *	18.85 *	20.84 *	22.12 *	22.50 *	21.73 *	17.79 *	18.62 *	12.01 *	3.32 *
<b>-7</b>	19.60 *	18.78 *	20.76 *	22.04 *	22.40 *	21.61 *	17.66 *	18.41 *	11.81 *	3.25 *
<b>-9</b>	19.49 *	18.68 *	20.65 *	21.91 *	22.25 *	21.44 *	17.49 *	18.15 *	11.58 *	3.18 *
<b>-11</b>	19.34 *	18.55 *	20.50 *	21.75 *	22.08 *	21.26 *	17.29 *	17.85 *	11.33 *	3.10 *
<b>-13</b>	19.17 *	18.38 *	20.32 *	21.56 *	21.87 *	21.02 *	17.04 *	17.50 *	11.03 *	3.01 *
<b>-15</b>	18.98 *	18.19 *	20.09 *	21.31 *	21.62 *	20.72 *	16.73 *	17.08 *	10.69 *	2.90 *
<b>-17</b>	23.40 *	22.41 *	24.74 *	26.21 *	26.56 *	25.42 *	20.42 *	20.69 *	12.85 *	3.48 *
<b>-19.5</b>	27.53 *	26.34 *	29.04 *	30.68 *	30.98 *	29.60 *	23.67 *	23.73 *	14.59 *	3.93 *
<b>-22.5</b>	26.79 *	25.61 *	28.17 *	29.64 *	29.76 *	28.16 *	22.41 *	22.36 *	13.59 *	3.64

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LUMENS TABULATION - (Cont.)

<b>-25.5</b>	30.05 *	28.68 *	31.45 *	32.93 *	32.80 *	30.57 *	24.06 *	23.98 *	14.51 *	3.87
<b>-29</b>	32.09 *	30.55 *	33.44 *	34.79 *	34.19 *	31.42 *	24.40 *	24.19 *	14.69 *	3.91
<b>-33</b>	32.14 *	30.45 *	33.18 *	34.30 *	33.24 *	30.01 *	22.96 *	22.76 *	14.00 *	3.74
<b>-37.5</b>	29.11 *	27.52 *	29.78 *	30.56 *	29.28 *	26.02 *	19.75 *	19.75 *	12.40 *	3.37
<b>-42.5</b>	20.98 *	19.88 *	21.42 *	21.80 *	20.65 *	18.33 *	14.11 *	14.39 *	9.29	2.58
<b>-47.5</b>	18.02 *	17.22 *	18.61 *	18.90 *	17.90 *	16.14 *	12.87 *	13.69 *	9.16	2.58
<b>-55</b>	9.52	9.22	10.08	10.36	9.91	9.09	7.60	8.60	5.95	1.69
<b>-65</b>	2.92	2.79	3.05	3.16	3.07	2.78	2.33	2.75	1.94	0.59
<b>-75</b>	0.69	0.65	0.70	0.72	0.71	0.65	0.53	0.60	0.45	0.17
<b>-85</b>	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.04	0.03	0.02
<b>-90</b>	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.04	0.03	0.02
<b>Total</b>	828.00	790.64	867.79	909.44	905.64	851.32	679.83	695.28	439.01	120.41

Vert. Angles	Horizontal Angles		
	<u>75</u>	<u>85</u>	<u>90</u>
<b>90</b>			
	0.00	0.00	0.41
<b>85</b>			
	0.03	0.00	10.41
<b>75</b>			
	0.07	0.00	47.67
<b>65</b>			
	0.19	0.00	148.56
<b>55</b>			
	0.29	0.00	260.68
<b>47.5</b>			
	0.29	0.00	296.96
<b>42.5</b>			
	0.38	0.00	414.44
<b>37.5</b>			
	0.42	0.00	465.10
<b>33</b>			
	0.44	0.00	476.04
<b>29</b>			
	0.44	0.00	456.65
<b>25.5</b>			
	0.41	0.00	415.76
<b>22.5</b>			
	0.45	0.00	433.70
<b>19.5</b>			
	0.40	0.00	372.39
<b>17</b>			
	0.33	0.00	303.76
<b>15</b>			
	0.34	0.00	308.02

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**LUMENS TABULATION - (Cont.)**

<b>13</b>	0.35	0.00	311.51
<b>11</b>	0.36	0.00	314.32
<b>9</b>	0.37	0.00	316.60
<b>7</b>	0.38	0.00	318.37
<b>5</b>	0.39	0.00	319.68
<b>3</b>	0.39	0.00	320.47
<b>1</b>	0.20	0.00	160.36
<b>0</b>	0.20	0.00	160.38
<b>-1</b>	0.39	0.00	320.57
<b>-3</b>	0.39	0.00	319.81
<b>-5</b>	0.38	0.00	318.48
<b>-7</b>	0.37	0.00	316.68
<b>-9</b>	0.36	0.00	314.39
<b>-11</b>	0.36	0.00	311.66
<b>-13</b>	0.34	0.00	308.43
<b>-15</b>	0.33	0.00	304.63
<b>-17</b>	0.40	0.00	374.57
<b>-19.5</b>	0.45	0.00	438.63
<b>-22.5</b>	0.42	0.00	423.76
<b>-25.5</b>	0.44	0.00	470.54
<b>-29</b>	0.45	0.00	497.64
<b>-33</b>	0.43	0.00	493.02
<b>-37.5</b>	0.39	0.00	443.49
<b>-42.5</b>	0.30	0.00	320.25
<b>-47.5</b>	0.30	0.00	279.67
<b>-55</b>	0.20	0.00	153.33
<b>-65</b>	0.08	0.00	47.61
<b>-75</b>	0.04	0.00	11.20

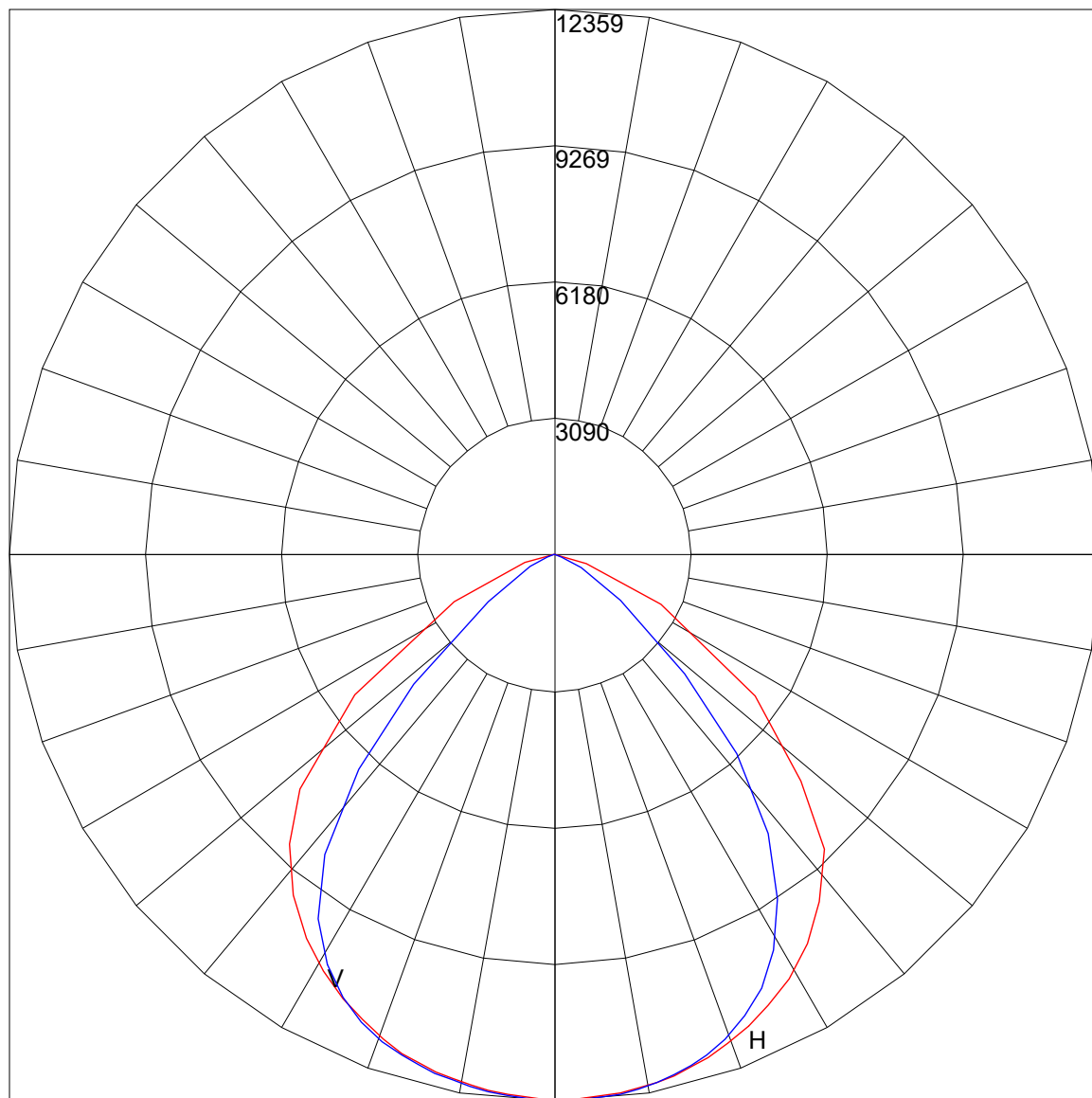
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LUMENS TABULATION - (Cont.)

-85	0.00	0.00	0.65
-90			
Total	13.98	0.09	13101.25

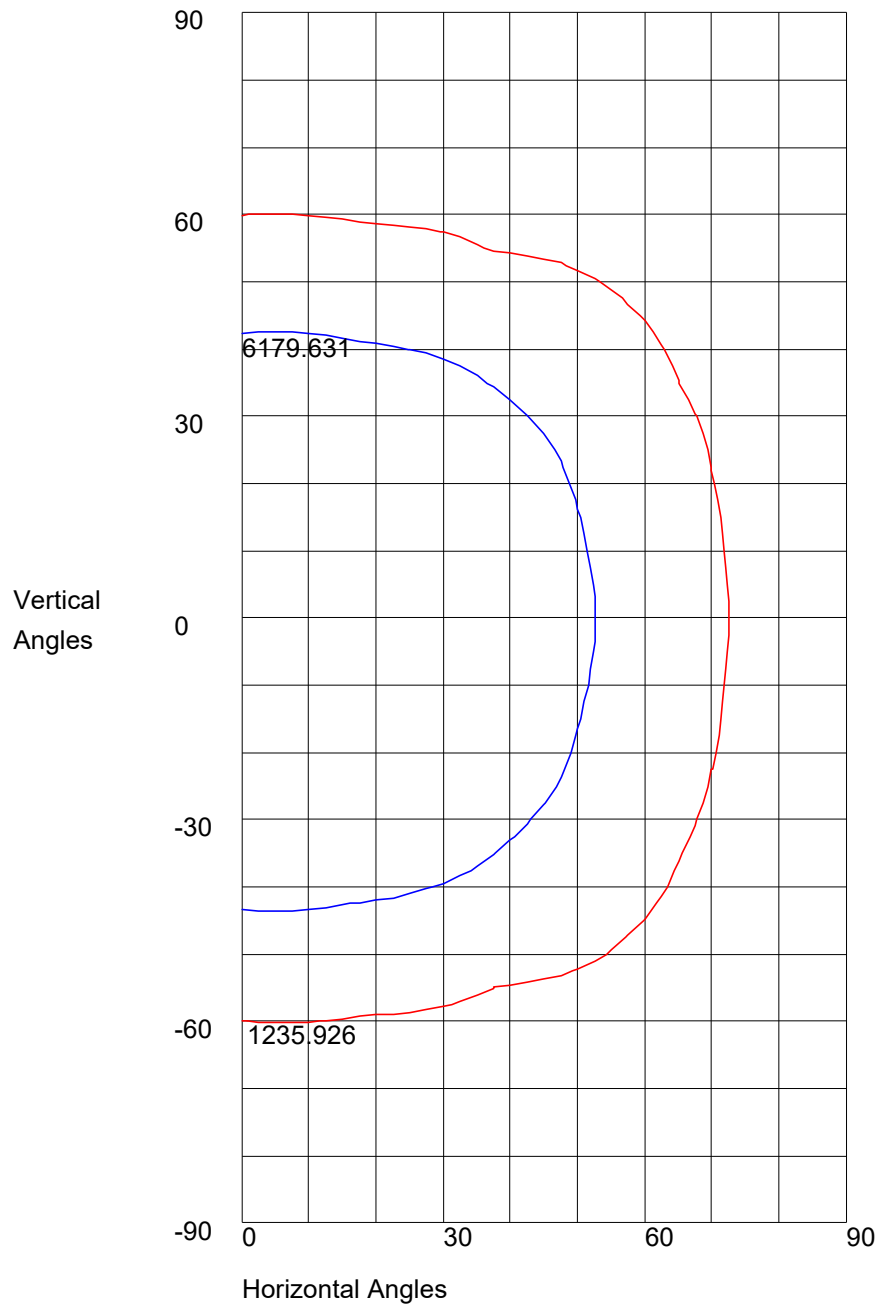


AXIAL CANDELA DISPLAY



Maximum Candela = 12359.263 Located At Horizontal Angle = 1, Vertical Angle = 1  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 12359.263 Located At Horizontal Angle = 1, Vertical Angle = 1  
50% Maximum Candela = 6179.6315  
10% Maximum Candela = 1235.9263