



## IES FLOOD REPORT

PHOTOMETRIC FILENAME : PFK SEL140 76 UV 8SEL [140W, 3000K].IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] BLC2112016E-I  
[ISSUEDATE] 2021-12-15 12:03  
[MANUFAC] LumenFocus, LLC.  
[LUMCAT] PFK SEL140 76 UV 8SEL [140W, 3000K]  
[LUMINAIRE]  
[LAMPCAT]  
[LAMP]  
[ \_VOLTAGE] 120.0 V  
[ \_CURRENT] 1.168 A  
[ \_POWERFACTOR] 0.997  
[ \_THD] 4.77  
[TESTLAB] UTEST TECHNICAL LABORATORY  
[ \_TESTINST] GPM-3000  
[ \_TESTDIST] 14.140 m [K=1.0000]  
[ \_TESTTEMPERATURE] 25.1 '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	8258.45
Maximum Candela Angle	-1H 3V
Horizontal Beam Angle (50%)	108.9
Vertical Beam Angle (50%)	87.2
Horizontal Field Angle (10%)	143.8
Vertical Field Angle (10%)	116.3
Lumens Per Lamp	17743.8 (1 lamp)
Total Lamp Lumens	17743.8
Beam Lumens	14210
Beam Efficiency	80 %
Field Lumens	17201
Field Efficiency	97 %
Spill Lumens	606
Luminaire Lumens	17807
Total Efficiency	100 %
Total Luminaire Watts	139.8
Ballast Factor	1.00

**IES FLOOD REPORT****PHOTOMETRIC FILENAME : PFK SEL140 76 UV 8SEL [140W, 3000K].IES****AXIAL CANDELA**

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	0	85	0
75	416.77	75	82.17
65	1840.18	65	338.23
55	4147.87	55	1255.63
47.5	5412.48	47.5	3206.46
42.5	6057.28	42.5	4848.62
37.5	6587.05	37.5	6030.01
33	6952.01	33	6812.07
29	7286.25	29	7303.47
25.5	7500.8	25.5	7591.16
22.5	7649.87	22.5	7763.79
19.5	7802.07	19.5	7901.1
17	7925.6	17	7994.18
15	8002.06	15	8055.44
13	8046.36	13	8109.32
11	8092.63	11	8155.09
9	8135.51	9	8196.9
7	8177.67	7	8228.98
5	8220.36	5	8239.78
3	8235.19	3	8247.17
1	8235.19	1	8250.59
0	8245.55	0	8245.55
-1	8248.94	-1	8236.91
-3	8244.48	-3	8214.73
-5	8222.33	-5	8192.39
-7	8187.67	-7	8152.21
-9	8164.62	-9	8095.99
-11	8116.93	-11	8038.68
-13	8070.84	-13	7968.59
-15	8017.78	-15	7883.17
-17	7953.65	-17	7795.77
-19.5	7837.27	-19.5	7679.46
-22.5	7718.74	-22.5	7504.75
-25.5	7570.74	-25.5	7289.6
-29	7345.2	-29	6934.24
-33	7022.57	-33	6362.47
-37.5	6618.49	-37.5	5421.47
-42.5	6089.62	-42.5	4078.27
-47.5	5418.46	-47.5	2543.42
-55	3924.21	-55	908.56
-65	1780.7	-65	285.97
-75	373.54	-75	77.66
-85	0	-85	8.47
-90	0	-90	0

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**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 8903.54

Total Field Lumens (one side of beam only) = 8600.29

\* 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
75	0.13	0.25	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.29
65	0.64	1.29	1.30	1.29	1.28	1.26	1.24	1.21	1.18	1.42
55	2.44	4.96	5.00	4.99	4.96	4.88	4.77	4.62	4.43	5.30
47.5	5.12 *	10.36 *	10.44 *	10.43 *	10.34 *	10.16 *	9.92 *	9.61 *	9.24 *	11.14 *
42.5	6.15 *	12.38 *	12.42 *	12.39 *	12.27 *	12.07 *	11.82 *	11.50 *	11.14 *	13.49 *
37.5	8.30 *	16.64 *	16.64 *	16.58 *	16.43 *	16.19 *	15.91 *	15.54 *	15.15 *	18.38 *
33	8.81 *	17.64 *	17.61 *	17.53 *	17.39 *	17.17 *	16.88 *	16.54 *	16.18 *	19.68 *
29	8.60 *	17.21 *	17.16 *	17.06 *	16.93 *	16.73 *	16.48 *	16.18 *	15.85 *	19.29 *
25.5	7.94 *	15.87 *	15.82 *	15.73 *	15.60 *	15.43 *	15.21 *	14.95 *	14.66 *	17.86 *
22.5	7.02 *	14.02 *	13.98 *	13.90 *	13.79 *	13.65 *	13.46 *	13.23 *	12.98 *	15.83 *
19.5	7.16 *	14.30 *	14.26 *	14.19 *	14.08 *	13.93 *	13.74 *	13.52 *	13.27 *	16.19 *
17	6.05 *	12.09 *	12.06 *	11.99 *	11.90 *	11.77 *	11.62 *	11.44 *	11.23 *	13.70 *
15	4.89 *	9.77 *	9.74 *	9.69 *	9.61 *	9.51 *	9.38 *	9.24 *	9.07 *	11.07 *
13	4.92 *	9.84 *	9.81 *	9.76 *	9.68 *	9.58 *	9.45 *	9.31 *	9.14 *	11.15 *
11	4.95 *	9.90 *	9.88 *	9.82 *	9.74 *	9.64 *	9.51 *	9.36 *	9.19 *	11.22 *
9	4.98 *	9.96 *	9.93 *	9.87 *	9.79 *	9.68 *	9.55 *	9.40 *	9.23 *	11.27 *
7	5.00 *	10.00 *	9.96 *	9.90 *	9.82 *	9.72 *	9.59 *	9.44 *	9.27 *	11.32 *
5	5.02 *	10.02 *	9.99 *	9.93 *	9.84 *	9.74 *	9.61 *	9.47 *	9.30 *	11.35 *
3	5.02 *	10.04 *	10.00 *	9.94 *	9.86 *	9.75 *	9.63 *	9.48 *	9.32 *	11.38 *
1	5.03 *	10.04 *	10.00 *	9.94 *	9.86 *	9.76 *	9.63 *	9.50 *	9.34 *	11.39 *
0	2.51 *	5.02 *	5.00 *	4.97 *	4.93 *	4.88 *	4.82 *	4.75 *	4.67 *	5.70 *
-1	2.51 *	5.02 *	5.00 *	4.97 *	4.93 *	4.88 *	4.82 *	4.75 *	4.67 *	5.70 *
-3	5.01 *	10.01 *	9.98 *	9.93 *	9.85 *	9.75 *	9.62 *	9.49 *	9.33 *	11.38 *
	5.00 *	9.98 *	9.95 *	9.90 *	9.82 *	9.73 *	9.61 *	9.47 *	9.30 *	11.36 *

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**LUMENS TABULATION - (Cont.)**

<b>-5</b>	4.98 *	9.95 *	9.91 *	9.85 *	9.78 *	9.69 *	9.57 *	9.43 *	9.27 *	11.32 *
<b>-7</b>	4.95 *	9.90 *	9.86 *	9.81 *	9.73 *	9.63 *	9.52 *	9.38 *	9.22 *	11.27 *
<b>-9</b>	4.92 *	9.83 *	9.80 *	9.75 *	9.67 *	9.57 *	9.45 *	9.31 *	9.16 *	11.19 *
<b>-11</b>	4.88 *	9.75 *	9.72 *	9.67 *	9.59 *	9.49 *	9.37 *	9.23 *	9.08 *	11.10 *
<b>-13</b>	4.83 *	9.66 *	9.63 *	9.59 *	9.51 *	9.41 *	9.29 *	9.15 *	9.00 *	10.99 *
<b>-15</b>	4.78 *	9.55 *	9.53 *	9.49 *	9.42 *	9.32 *	9.20 *	9.06 *	8.90 *	10.87 *
<b>-17</b>	5.89 *	11.79 *	11.76 *	11.71 *	11.62 *	11.50 *	11.35 *	11.18 *	10.97 *	13.40 *
<b>-19.5</b>	6.94 *	13.88 *	13.86 *	13.79 *	13.69 *	13.56 *	13.38 *	13.16 *	12.92 *	15.76 *
<b>-22.5</b>	6.76 *	13.53 *	13.51 *	13.45 *	13.35 *	13.22 *	13.04 *	12.82 *	12.58 *	15.34 *
<b>-25.5</b>	7.59 *	15.19 *	15.16 *	15.09 *	14.98 *	14.83 *	14.62 *	14.37 *	14.09 *	17.17 *
<b>-29</b>	8.11 *	16.24 *	16.23 *	16.16 *	16.04 *	15.86 *	15.62 *	15.34 *	15.04 *	18.30 *
<b>-33</b>	8.09 *	16.23 *	16.24 *	16.19 *	16.06 *	15.85 *	15.57 *	15.27 *	14.95 *	18.19 *
<b>-37.5</b>	7.25 *	14.59 *	14.63 *	14.60 *	14.47 *	14.26 *	14.01 *	13.67 *	13.32 *	16.16 *
<b>-42.5</b>	5.06 *	10.22 *	10.28 *	10.26 *	10.18 *	10.04 *	9.84 *	9.56 *	9.20 *	11.11 *
<b>-47.5</b>	3.96 *	8.04 *	8.11 *	8.11 *	8.06 *	7.94 *	7.75 *	7.50 *	7.17 *	8.64 *
<b>-55</b>	1.83	3.71	3.75	3.74	3.72	3.66	3.57	3.46	3.32	3.97
<b>-65</b>	0.55	1.11	1.12	1.11	1.10	1.08	1.06	1.03	1.00	1.20
<b>-75</b>	0.13	0.26	0.26	0.26	0.26	0.26	0.25	0.24	0.24	0.29
<b>-85</b>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
<b>-90</b>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
<b>Total</b>	214.73	430.05	429.58	427.61	424.19	419.25	412.97	405.43	396.81	483.15

**Vert. Angles**      **Horizontal Angles**

	<u>19.5</u>	<u>22.5</u>	<u>25.5</u>	<u>29</u>	<u>33</u>	<u>37.5</u>	<u>42.5</u>	<u>47.5</u>	<u>55</u>	<u>65</u>
<b>90</b>	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.01
<b>85</b>	0.34	0.32	0.35	0.37	0.39	0.38	0.30	0.33	0.26	0.08
<b>75</b>	1.63	1.57	1.74	1.82	1.81	1.67	1.39	1.60	1.12	0.31
<b>65</b>	6.16	5.99	6.58	6.75	6.44	5.86	4.85	5.32	3.50	0.93
<b>55</b>	12.93 *	12.35 *	13.46 *	13.72 *	12.87 *	11.36 *	8.87 *	9.10 *	5.68	1.45
<b>47.5</b>	15.52 *	14.63 *	15.86 *	16.31 *	15.51 *	13.63 *	10.26 *	10.09 *	6.03	1.47

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**LUMENS TABULATION - (Cont.)**

<b>42.5</b>	21.13 *	19.96 *	21.71 *	22.49 *	21.80 *	19.52 *	14.76 *	14.35 *	8.34 *	1.97
<b>37.5</b>	22.70 *	21.59 *	23.63 *	24.58 *	24.13 *	22.15 *	17.18 *	16.88 *	9.73 *	2.25
<b>33</b>	22.32 *	21.30 *	23.36 *	24.41 *	24.22 *	22.71 *	18.03 *	17.98 *	10.43 *	2.41
<b>29</b>	20.70 *	19.79 *	21.73 *	22.79 *	22.83 *	21.70 *	17.54 *	17.73 *	10.39 *	2.43
<b>25.5</b>	18.36 *	17.55 *	19.31 *	20.35 *	20.51 *	19.68 *	16.09 *	16.47 *	9.78 *	2.32
<b>22.5</b>	18.77 *	17.96 *	19.79 *	20.92 *	21.18 *	20.43 *	16.78 *	17.38 *	10.52 *	2.52 *
<b>19.5</b>	15.88 *	15.21 *	16.78 *	17.78 *	18.06 *	17.44 *	14.37 *	15.07 *	9.27 *	2.25 *
<b>17</b>	12.84 *	12.30 *	13.58 *	14.41 *	14.65 *	14.17 *	11.72 *	12.38 *	7.71 *	1.89 *
<b>15</b>	12.94 *	12.39 *	13.70 *	14.54 *	14.80 *	14.33 *	11.89 *	12.64 *	7.95 *	1.96 *
<b>13</b>	13.02 *	12.47 *	13.79 *	14.65 *	14.92 *	14.47 *	12.03 *	12.86 *	8.16 *	2.03 *
<b>11</b>	13.08 *	12.55 *	13.88 *	14.74 *	15.02 *	14.57 *	12.13 *	13.04 *	8.34 *	2.10 *
<b>9</b>	13.14 *	12.61 *	13.95 *	14.82 *	15.10 *	14.65 *	12.22 *	13.19 *	8.51 *	2.15 *
<b>7</b>	13.18 *	12.65 *	14.00 *	14.87 *	15.15 *	14.72 *	12.29 *	13.32 *	8.64 *	2.20 *
<b>5</b>	13.21 *	12.68 *	14.04 *	14.91 *	15.19 *	14.76 *	12.33 *	13.42 *	8.77 *	2.25 *
<b>3</b>	13.22 *	12.70 *	14.07 *	14.93 *	15.21 *	14.78 *	12.36 *	13.48 *	8.85 *	2.28 *
<b>1</b>	6.61 *	6.35 *	7.04 *	7.47 *	7.61 *	7.39 *	6.18 *	6.75 *	4.44 *	1.15 *
<b>0</b>	6.61 *	6.35 *	7.04 *	7.47 *	7.60 *	7.39 *	6.18 *	6.75 *	4.44 *	1.14 *
<b>-1</b>	13.21 *	12.69 *	14.05 *	14.91 *	15.19 *	14.76 *	12.34 *	13.45 *	8.82 *	2.27 *
<b>-3</b>	13.19 *	12.66 *	14.01 *	14.87 *	15.14 *	14.71 *	12.28 *	13.34 *	8.70 *	2.23 *
<b>-5</b>	13.14 *	12.61 *	13.95 *	14.81 *	15.08 *	14.64 *	12.21 *	13.20 *	8.54 *	2.17 *
<b>-7</b>	13.08 *	12.54 *	13.88 *	14.73 *	15.00 *	14.55 *	12.12 *	13.04 *	8.37 *	2.11 *
<b>-9</b>	13.00 *	12.46 *	13.79 *	14.64 *	14.90 *	14.43 *	12.00 *	12.84 *	8.17 *	2.05 *
<b>-11</b>	12.89 *	12.36 *	13.68 *	14.52 *	14.77 *	14.30 *	11.87 *	12.62 *	7.95 *	1.98 *
<b>-13</b>	12.76 *	12.24 *	13.55 *	14.38 *	14.63 *	14.15 *	11.70 *	12.35 *	7.70 *	1.90 *
<b>-15</b>	12.62 *	12.11 *	13.39 *	14.22 *	14.46 *	13.95 *	11.50 *	12.04 *	7.42 *	1.82 *
<b>-17</b>	15.56 *	14.91 *	16.48 *	17.47 *	17.75 *	17.13 *	14.06 *	14.57 *	8.86 *	2.15 *
<b>-19.5</b>	18.29 *	17.52 *	19.34 *	20.45 *	20.70 *	19.97 *	16.33 *	16.68 *	9.95 *	2.40
<b>-22.5</b>	17.79 *	17.03 *	18.75 *	19.75 *	19.89 *	19.07 *	15.51 *	15.64 *	9.17 *	2.18

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**LUMENS TABULATION - (Cont.)**

<b>-25.5</b>	19.91 *	19.04 *	20.91 *	21.91 *	21.90 *	20.75 *	16.66 *	16.64 *	9.64 *	2.27
<b>-29</b>	21.16 *	20.20 *	22.17 *	23.11 *	22.82 *	21.28 *	16.80 *	16.59 *	9.52 *	2.21
<b>-33</b>	20.99 *	19.97 *	21.83 *	22.61 *	22.07 *	20.12 *	15.52 *	15.18 *	8.69 *	2.03
<b>-37.5</b>	18.63 *	17.69 *	19.22 *	19.77 *	18.99 *	16.95 *	12.90 *	12.54 *	7.25 *	1.76
<b>-42.5</b>	12.89 *	12.30 *	13.30 *	13.50 *	12.70 *	11.28 *	8.72 *	8.60 *	5.13	1.29
<b>-47.5</b>	10.15 *	9.84 *	10.71 *	10.77 *	10.03 *	9.03 *	7.28 *	7.57	4.75	1.24
<b>-55</b>	4.65	4.59	5.12	5.26	4.96	4.52	3.86	4.35	2.86	0.77
<b>-65</b>	1.38	1.32	1.45	1.51	1.49	1.37	1.16	1.35	0.92	0.26
<b>-75</b>	0.33	0.31	0.34	0.35	0.34	0.33	0.28	0.32	0.24	0.08
<b>-85</b>	0.02	0.01	0.02	0.02	0.01	0.01	0.01	0.02	0.02	0.01
<b>-90</b>										
<b>Total</b>	559.93	535.71	589.30	618.67	617.85	585.06	474.85	493.09	303.57	74.70

<b>Vert.</b>	<b>Horizontal Angles</b>			
<b>Angles</b>	<b>75</b>	<b>85</b>	<b>90</b>	<b>Total</b>
<b>90</b>	0.00	0.00		0.16
<b>85</b>	0.01	0.00		5.58
<b>75</b>	0.03	0.00		26.80
<b>65</b>	0.09	0.00		98.84
<b>55</b>	0.14	0.00		198.68
<b>47.5</b>	0.14	0.00		235.09
<b>42.5</b>	0.19	0.00		321.97
<b>37.5</b>	0.21	0.00		350.45
<b>33</b>	0.22	0.00		348.87
<b>29</b>	0.23	0.00		326.94
<b>25.5</b>	0.22	0.00		292.49
<b>22.5</b>	0.23	0.00		301.10
<b>19.5</b>	0.21	0.00		256.15
<b>17</b>	0.17	0.00		207.80
<b>15</b>	0.18	0.00		209.97

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**LUMENS TABULATION - (Cont.)**

<b>13</b>	0.19	0.00	211.79
<b>11</b>	0.19	0.00	213.31
<b>9</b>	0.20	0.00	214.55
<b>7</b>	0.20	0.00	215.48
<b>5</b>	0.21	0.00	216.17
<b>3</b>	0.21	0.00	216.57
<b>1</b>	0.10	0.00	108.34
<b>0</b>	0.10	0.00	108.30
<b>-1</b>	0.21	0.00	216.22
<b>-3</b>	0.20	0.00	215.44
<b>-5</b>	0.20	0.00	214.31
<b>-7</b>	0.19	0.00	212.88
<b>-9</b>	0.19	0.00	211.10
<b>-11</b>	0.18	0.00	209.02
<b>-13</b>	0.18	0.00	206.60
<b>-15</b>	0.17	0.00	203.82
<b>-17</b>	0.20	0.00	250.33
<b>-19.5</b>	0.23	0.00	292.79
<b>-22.5</b>	0.21	0.00	282.57
<b>-25.5</b>	0.22	0.00	312.94
<b>-29</b>	0.21	0.00	329.00
<b>-33</b>	0.20	0.00	321.86
<b>-37.5</b>	0.18	0.00	282.84
<b>-42.5</b>	0.13	0.00	195.60
<b>-47.5</b>	0.13	0.00	156.80
<b>-55</b>	0.08	0.00	75.77
<b>-65</b>	0.03	0.00	22.59
<b>-75</b>	0.01	0.00	5.38

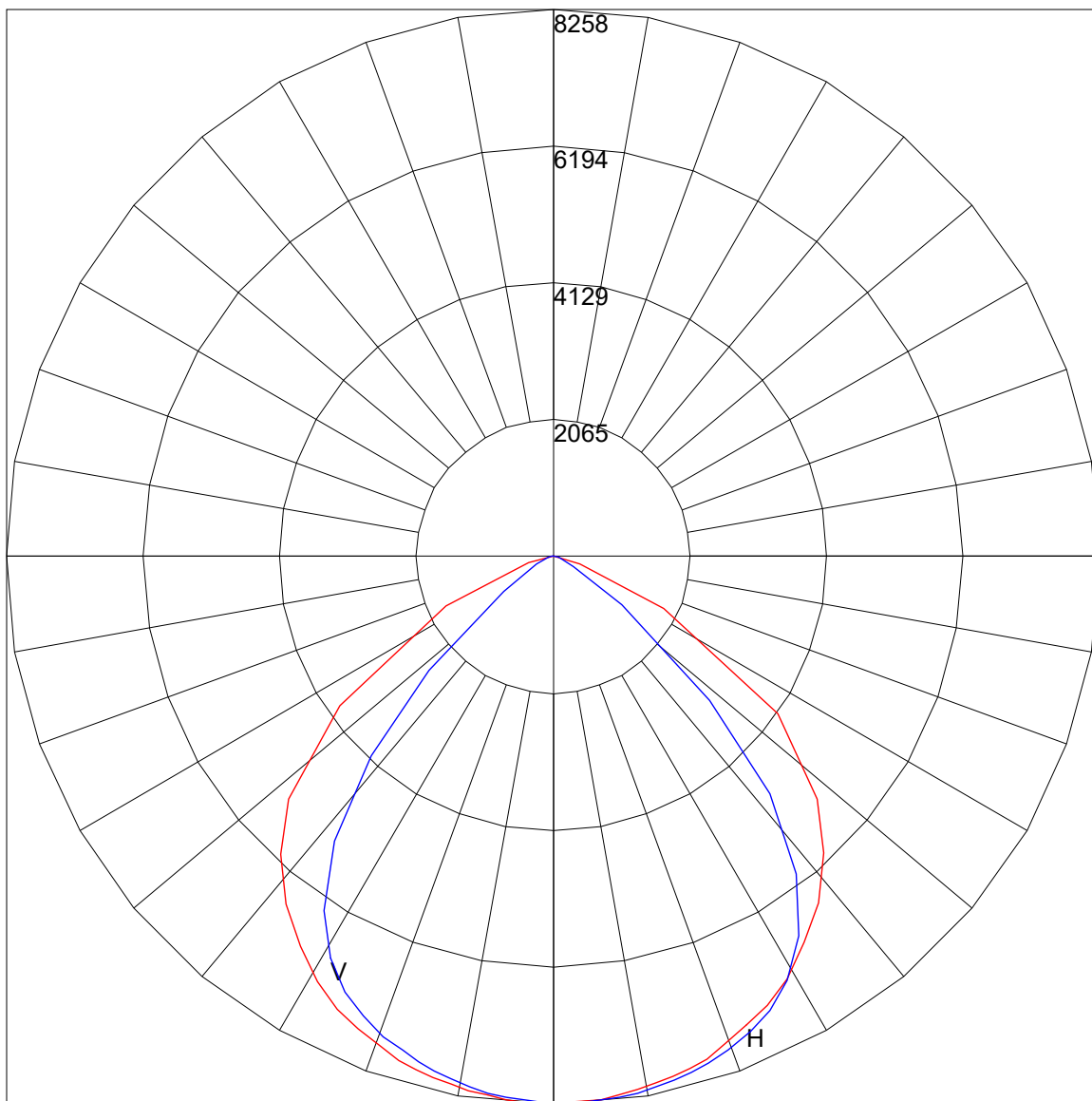
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LUMENS TABULATION - (Cont.)

-85	0.00	0.00	0.28
-90			
Total	7.02	0.00	8903.54

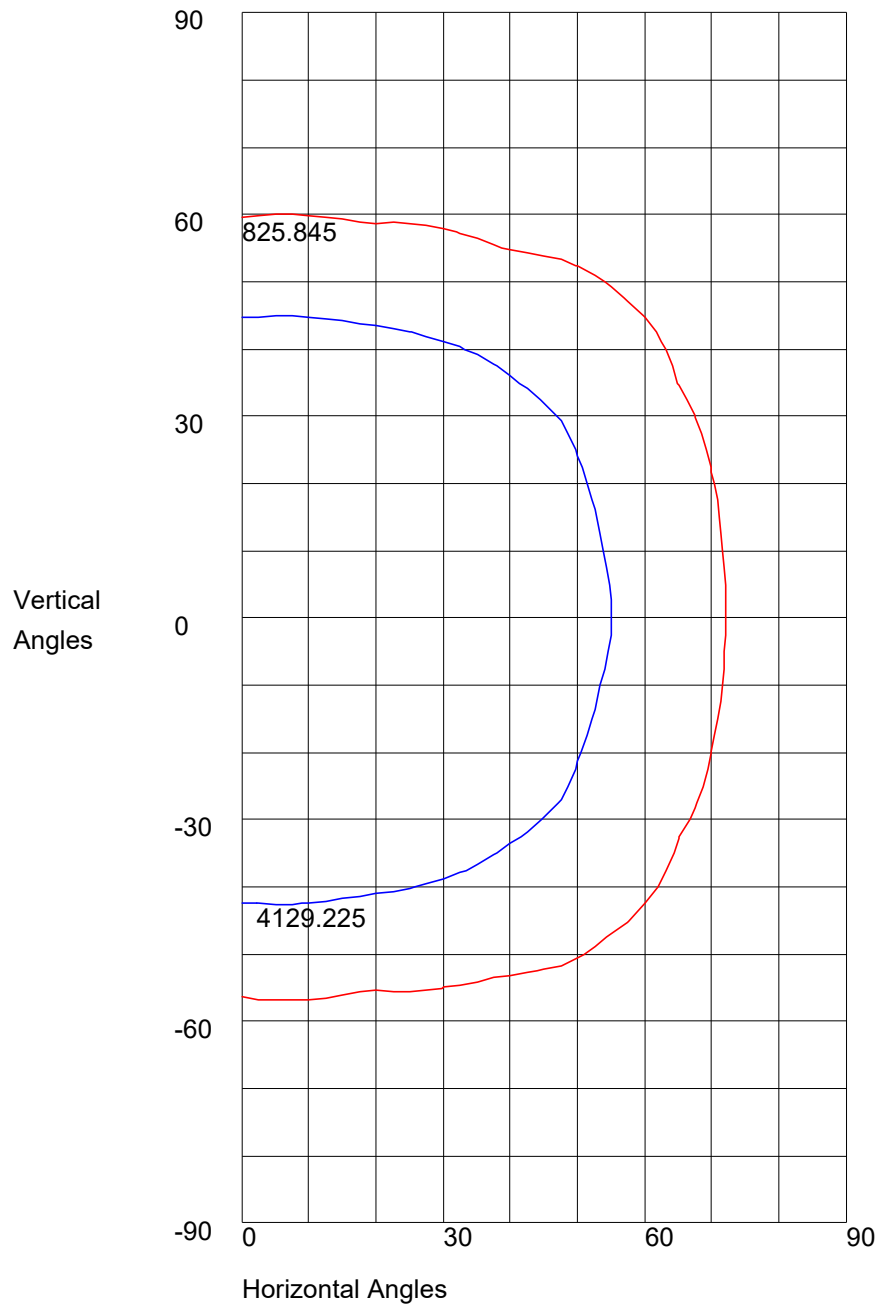


AXIAL CANDELA DISPLAY



Maximum Candela = 8258.45 Located At Horizontal Angle = -1, Vertical Angle = 3  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 8258.45 Located At Horizontal Angle = -1, Vertical Angle = 3  
50% Maximum Candela = 4129.225  
10% Maximum Candela = 825.845