IES FLOOD REPORT
PHOTOMETRIC FILENAME : 810090EX.LDT

DESCRIPTIVE INFORMATION (From Photometric File)

EULUMDAT
[MANUFAC] PALAZZOLI
[_EULUMDAT_ITYP] 3
[_EULUMDAT_HDIST] 2.5
[_EULUMD_VDIST] 2.5
[TEST] 810090-143-QL17-S02
[LUMINAIRE] MITO LED-EX ZONA22
[LUMCAT] 810090EX
[_EULUM_FILENAME] 810090EX.ldt
[ISSUEDATE] 17/01/2017 17.32.06
[_EULUM_AREALENGTH] 430
[_EULUM_AREAWIDTH] 0
[_EULUM_C0_LUM] 1
[_EULUM_C90_LUM] 1
[_EULUM_C180_LUM] 1
[_EULUM_C270_LUM] 1
[_EULUM_DOWN_FLUX] 100
[_EULUM_EFFICIENCY] 100
[_EULUM_CONV] 1
[_EULUM_TILT] 0.0
[_EULUM_LAMP_1_NUM] 1
[_EULUM_LAMP_1_TYPE] LED
[_EULUM_LAMP_1_FLUX] 10830
[_EULUM_LAMP_1_COLOR] 4000
[_EULUM_LAMP_1_CRG] 80
[_EULUM_LAMP_1_WATTS] 99
[LAMP] LED
[_EULUM_DR_0] 0.22
[_EULUM_DR_1] 0.33
[_EULUM_DR_2] 0.42
[_EULUM_DR_3] 0.52
[_EULUM_DR_4] 0.58
[_EULUM_DR_5] 0.66
[_EULUM_DR_6] 0.72
[_EULUM_DR_7] 0.76
[_EULUM_DR_8] 0.8
[_EULUM_DR_9] 0.83

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

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CHARACTERISTICS

NEMA Type	6 H x 6 V
Maximum Candela	4199.469
Maximum Candela Angle	-33H -25.5V
Horizontal Beam Angle (50%)	101.5
Vertical Beam Angle (50%)	93.6
Horizontal Field Angle (10%)	124.4
Vertical Field Angle (10%)	119.6
Lumens Per Lamp	10830 (1 lamp)
Total Lamp Lumens	10830
Beam Lumens	9764
Beam Efficiency	90 %
Field Lumens	10713
Field Efficiency	99 %
Spill Lumens	184
Luminaire Lumens	10896
Total Efficiency	101 %
Total Luminaire Watts	99
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	.136	90	.256
85	7.53	85	7.311
75	53.101	75	52.558
65	269.645	65	279.88
55	2112.175	55	2070.696
47.5	3890.677	47.5	3828.188
42.5	4185.795	42.5	4129.371
37.5	4139.876	37.5	4088
33	3971.231	33	3917.211
29	3786.493	29	3739.968
25.5	3624.411	25.5	3585.683
22.5	3496.899	22.5	3464.517
19.5	3394.75	19.5	3362.368
17	3321.561	17	3288.443
15	3276.941	15	3240.877
13	3240.812	13	3204.142
11	3215.08	11	3174.164
9	3195.803	9	3151.855
7	3181.486	7	3136.325
5	3173.082	5	3124.888
3	3167.624	3	3123.069
1	3156.187	1	3138.729
0	3149.472	0	3149.472
-1	3156.187	-1	3138.729
-3	3167.624	-3	3123.069
-5	3173.082	-5	3124.888
-7	3181.486	-7	3136.325
-9	3195.803	-9	3151.855
-11	3215.08	-11	3174.164
-13	3240.812	-13	3204.142
-15	3276.941	-15	3240.877
-17	3321.561	-17	3288.443
-19.5	3394.75	-19.5	3362.368
-22.5	3496.899	-22.5	3464.517
-25.5	3624.411	-25.5	3585.683
-29	3786.493	-29	3739.968
-33	3971.231	-33	3917.211
-37.5	4139.876	-37.5	4088
-42.5	4185.795	-42.5	4129.371
-47.5	3890.677	-47.5	3828.188
-55	2112.175	-55	2070.696
-65	269.645	-65	279.88
-75	53.101	-75	52.558
-85	7.53	-85	7.311
-90	.136	-90	.256

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LUMEN TABULATION
Average Of Right And Left Sides
Total Luminaire Lumens (one side of beam only) = 5448.17
Total Field Lumens (one side of beam only) = 5356.36
* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	0	1	3	5	7	9	11	13	15	17
90	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
85	0.09	0.18	0.19	0.19	0.19	0.18	0.18	0.18	0.17	0.21
75	0.51	1.01	1.01	0.99	0.97	0.94	0.91	0.87	0.83	0.97
65	3.59 *	7.19 *	7.11 *	6.94 *	6.74 *	6.50 *	6.21 *	5.88 *	5.49 *	6.27 *
55	6.76 *	13.59 *	13.50 *	13.26 *	13.02 *	12.72 *	12.36 *	11.89 *	11.39 *	13.46 *
47.5	6.08 *	12.25 *	12.20 *	12.08 *	11.97 *	11.84 *	11.66 *	11.40 *	11.17 *	13.52 *
42.5	6.28 *	12.65 *	12.62 *	12.55 *	12.51 *	12.47 *	12.35 *	12.22 *	12.11 *	14.85 *
37.5	5.51 *	11.09 *	11.08 *	11.06 *	11.07 *	11.05 *	11.00 *	10.97 *	10.91 *	13.52 *
33	4.69 *	9.43 *	9.43 *	9.44 *	9.46 *	9.45 *	9.45 *	9.45 *	9.43 *	11.77 *
29	3.93 *	7.89 *	7.89 *	7.91 *	7.92 *	7.93 *	7.95 *	7.96 *	7.98 *	9.98 *
25.5	3.24 *	6.51 *	6.50 *	6.53 *	6.54 *	6.54 *	6.56 *	6.59 *	6.62 *	8.29 *
22.5	3.14 *	6.30 *	6.30 *	6.31 *	6.33 *	6.35 *	6.37 *	6.40 *	6.42 *	8.06 *
19.5	2.55 *	5.12 *	5.12 *	5.13 *	5.13 *	5.15 *	5.18 *	5.19 *	5.22 *	6.55 *
17	2.00 *	4.02 *	4.02 *	4.03 *	4.04 *	4.05 *	4.07 *	4.08 *	4.09 *	5.15 *
15	1.98 *	3.97 *	3.96 *	3.96 *	3.98 *	3.99 *	4.00 *	4.02 *	4.04 *	5.09 *
13	1.95 *	3.93 *	3.92 *	3.92 *	3.93 *	3.94 *	3.95 *	3.97 *	3.99 *	5.03 *
11	1.94 *	3.89 *	3.89 *	3.89 *	3.89 *	3.90 *	3.92 *	3.93 *	3.95 *	4.97 *
9	1.92 *	3.86 *	3.87 *	3.87 *	3.87 *	3.88 *	3.89 *	3.90 *	3.91 *	4.92 *
7	1.91 *	3.85 *	3.86 *	3.86 *	3.85 *	3.85 *	3.87 *	3.87 *	3.89 *	4.89 *
5	1.91 *	3.84 *	3.84 *	3.84 *	3.83 *	3.84 *	3.86 *	3.86 *	3.86 *	4.87 *
3	1.91 *	3.84 *	3.84 *	3.83 *	3.84 *	3.84 *	3.85 *	3.85 *	3.85 *	4.84 *
1	0.96 *	1.92 *	1.92 *	1.92 *	1.92 *	1.92 *	1.92 *	1.92 *	1.93 *	2.42 *
0	0.96 *	1.92 *	1.92 *	1.92 *	1.92 *	1.92 *	1.92 *	1.92 *	1.93 *	2.42 *
-1	1.91 *	3.84 *	3.84 *	3.83 *	3.84 *	3.84 *	3.85 *	3.85 *	3.85 *	4.84 *
-3	1.91 *	3.84 *	3.84 *	3.84 *	3.83 *	3.84 *	3.86 *	3.86 *	3.86 *	4.87 *
-5	1.91 *	3.85 *	3.86 *	3.86 *	3.85 *	3.85 *	3.87 *	3.87 *	3.89 *	4.89 *
-7	1.92 *	3.86 *	3.87 *	3.87 *	3.87 *	3.88 *	3.89 *	3.90 *	3.91 *	4.92 *

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LUMENS TABULATION - (Cont.)

-9	1.94 *	3.89 *	3.89 *	3.89 *	3.89 *	3.90 *	3.92 *	3.93 *	3.95 *	4.97 *
-11	1.95 *	3.93 *	3.92 *	3.92 *	3.93 *	3.94 *	3.95 *	3.97 *	3.99 *	5.03 *
-13	1.98 *	3.97 *	3.96 *	3.96 *	3.98 *	3.99 *	4.00 *	4.02 *	4.04 *	5.09 *
-15	2.00 *	4.02 *	4.02 *	4.03 *	4.04 *	4.05 *	4.07 *	4.08 *	4.09 *	5.15 *
-17	2.55 *	5.12 *	5.12 *	5.13 *	5.13 *	5.15 *	5.18 *	5.19 *	5.22 *	6.55 *
-19.5	3.14 *	6.30 *	6.30 *	6.31 *	6.33 *	6.35 *	6.37 *	6.40 *	6.42 *	8.06 *
-22.5	3.24 *	6.51 *	6.50 *	6.53 *	6.54 *	6.54 *	6.56 *	6.59 *	6.62 *	8.29 *
-25.5	3.93 *	7.89 *	7.89 *	7.91 *	7.92 *	7.93 *	7.95 *	7.96 *	7.98 *	9.98 *
-29	4.69 *	9.43 *	9.43 *	9.44 *	9.46 *	9.45 *	9.45 *	9.45 *	9.43 *	11.77 *
-33	5.51 *	11.09 *	11.08 *	11.06 *	11.07 *	11.05 *	11.00 *	10.97 *	10.91 *	13.52 *
-37.5	6.28 *	12.65 *	12.62 *	12.55 *	12.51 *	12.47 *	12.35 *	12.22 *	12.11 *	14.85 *
-42.5	6.08 *	12.25 *	12.20 *	12.08 *	11.97 *	11.84 *	11.66 *	11.40 *	11.17 *	13.52 *
-47.5	6.76 *	13.59 *	13.50 *	13.26 *	13.02 *	12.72 *	12.36 *	11.89 *	11.39 *	13.46 *
-55	3.59 *	7.19 *	7.11 *	6.94 *	6.74 *	6.50 *	6.21 *	5.88 *	5.49 *	6.27 *
-65	0.51	1.01	1.01	0.99	0.97	0.94	0.91	0.87	0.83	0.97
-75	0.09	0.18	0.19	0.19	0.19	0.18	0.18	0.18	0.17	0.21
-85	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-90										
Total	125.71	252.70	252.19	251.10	250.04	248.70	247.04	244.81	242.47	299.25

Vert. Angles	**Horizontal Angles**									
	19.5	**22.5**	**25.5**	**29**	**33**	**37.5**	**42.5**	**47.5**	**55**	**65**
90	0.02	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.00
85	0.23	0.22	0.24	0.24	0.23	0.22	0.17	0.18	0.13	0.05
75	1.05	0.93	0.95	0.93	0.85	0.74	0.56	0.56	0.39	0.14
65	6.66 *	5.75 *	5.51 *	4.85 *	3.87	2.71	1.64	1.39	0.82	0.27
55	14.76 *	13.17 *	13.08 *	11.76 *	9.42 *	6.50 *	3.58 *	2.48	1.11	0.31
47.5	15.36 *	14.28 *	14.93 *	14.29 *	12.17 *	8.85 *	4.95 *	3.17 *	1.15	0.27
42.5	17.34 *	16.66 *	18.21 *	18.62 *	17.26 *	13.72 *	8.17 *	5.29 *	1.74	0.32
37.5	16.03 *	15.64 *	17.54 *	18.76 *	18.63 *	16.19 *	10.49 *	7.16 *	2.32	0.34
33	14.03 *	13.83 *	15.78 *	17.29 *	17.90 *	16.65 *	11.75 *	8.52 *	2.76 *	0.35
29	11.93 *	11.87 *	13.68 *	15.23 *	16.10 *	15.66 *	11.86 *	9.13 *	3.03 *	0.35

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LUMENS TABULATION - (Cont.)

25.5	9.96 *	9.95 *	11.55 *	12.97 *	13.91 *	13.91 *	11.03 *	8.98 *	3.10 *	0.33
22.5	9.71 *	9.74 *	11.37 *	12.82 *	13.95 *	14.21 *	11.63 *	9.89 *	3.53 *	0.37
19.5	7.92 *	7.98 *	9.32 *	10.59 *	11.60 *	11.96 *	10.08 *	8.89 *	3.28 *	0.33
17	6.24 *	6.28 *	7.37 *	8.40 *	9.24 *	9.63 *	8.25 *	7.46 *	2.83 *	0.28
15	6.15 *	6.20 *	7.29 *	8.32 *	9.21 *	9.67 *	8.35 *	7.69 *	3.00 *	0.29
13	6.08 *	6.13 *	7.21 *	8.26 *	9.19 *	9.68 *	8.40 *	7.87 *	3.17 *	0.30
11	6.01 *	6.07 *	7.15 *	8.23 *	9.16 *	9.65 *	8.44 *	8.07 *	3.30 *	0.31
9	5.96 *	6.03 *	7.12 *	8.18 *	9.10 *	9.64 *	8.55 *	8.26 *	3.40 *	0.32
7	5.93 *	5.99 *	7.06 *	8.13 *	9.08 *	9.69 *	8.63 *	8.38 *	3.48 *	0.33
5	5.91 *	5.97 *	7.03 *	8.12 *	9.09 *	9.69 *	8.64 *	8.47 *	3.56 *	0.33
3	5.87 *	5.95 *	7.02 *	8.10 *	9.06 *	9.68 *	8.66 *	8.54 *	3.61 *	0.34
1	2.93 *	2.97 *	3.50 *	4.04 *	4.53 *	4.85 *	4.34 *	4.28 *	1.81 *	0.17
0	2.93 *	2.97 *	3.50 *	4.04 *	4.53 *	4.85 *	4.34 *	4.28 *	1.81 *	0.17
-1	5.87 *	5.95 *	7.02 *	8.10 *	9.06 *	9.68 *	8.66 *	8.54 *	3.61 *	0.34
-3	5.91 *	5.97 *	7.03 *	8.12 *	9.09 *	9.69 *	8.64 *	8.47 *	3.56 *	0.33
-5	5.93 *	5.99 *	7.06 *	8.13 *	9.08 *	9.69 *	8.63 *	8.38 *	3.48 *	0.33
-7	5.96 *	6.03 *	7.12 *	8.18 *	9.10 *	9.64 *	8.55 *	8.26 *	3.40 *	0.32
-9	6.01 *	6.07 *	7.15 *	8.23 *	9.16 *	9.65 *	8.44 *	8.07 *	3.30 *	0.31
-11	6.08 *	6.13 *	7.21 *	8.26 *	9.19 *	9.68 *	8.40 *	7.87 *	3.17 *	0.30
-13	6.15 *	6.20 *	7.29 *	8.32 *	9.21 *	9.67 *	8.35 *	7.69 *	3.00 *	0.29
-15	6.24 *	6.28 *	7.37 *	8.40 *	9.24 *	9.63 *	8.25 *	7.46 *	2.83 *	0.28
-17	7.92 *	7.98 *	9.32 *	10.59 *	11.60 *	11.96 *	10.08 *	8.89 *	3.28 *	0.33
-19.5	9.71 *	9.74 *	11.37 *	12.82 *	13.95 *	14.21 *	11.63 *	9.89 *	3.53 *	0.37
-22.5	9.96 *	9.95 *	11.55 *	12.97 *	13.91 *	13.91 *	11.03 *	8.98 *	3.10 *	0.33
-25.5	11.93 *	11.87 *	13.68 *	15.23 *	16.10 *	15.66 *	11.86 *	9.13 *	3.03 *	0.35
-29	14.03 *	13.83 *	15.78 *	17.29 *	17.90 *	16.65 *	11.75 *	8.52 *	2.76 *	0.35
-33	16.03 *	15.64 *	17.54 *	18.76 *	18.63 *	16.19 *	10.49 *	7.16 *	2.32	0.34
-37.5	17.34 *	16.66 *	18.21 *	18.62 *	17.26 *	13.72 *	8.17 *	5.29 *	1.74	0.32
-42.5	15.36 *	14.28 *	14.93 *	14.29 *	12.17 *	8.85 *	4.95 *	3.17 *	1.15	0.27
-47.5	14.76 *	13.17 *	13.08 *	11.76 *	9.42 *	6.50 *	3.58 *	2.48	1.11	0.31

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LUMENS TABULATION - (Cont.)

-55	6.66 *	5.75 *	5.51 *	4.85 *	3.87	2.71	1.64	1.39	0.82	0.27
-65	1.05	0.93	0.95	0.93	0.85	0.74	0.56	0.56	0.39	0.14
-75	0.23	0.22	0.24	0.24	0.23	0.22	0.17	0.18	0.13	0.05
-85	0.02	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.00
-90										
Total	352.16	343.20	385.84	416.29	427.16	407.03	316.34	269.37	103.05	12.20

Vert. Angles	**Horizontal Angles**		
	75	**85**	**90**	**Total**
90	0.00	0.00	0.25
85	0.01	0.00	3.68
75	0.03	0.00	16.12
65	0.05	0.00	95.42
55	0.05	0.00	198.16
47.5	0.04	0.00	203.64
42.5	0.05	0.00	238.01
37.5	0.05	0.00	230.41
33	0.05	0.00	210.93
29	0.04	0.00	186.21
25.5	0.04	0.00	159.65
22.5	0.04	0.00	159.24
19.5	0.04	0.00	132.31
17	0.03	0.00	105.53
15	0.03	0.00	105.18
13	0.03	0.00	104.85
11	0.03	0.00	104.60
9	0.03	0.00	104.50
7	0.03	0.00	104.45
5	0.03	0.00	104.40
3	0.03	0.00	104.33
1	0.02	0.00	52.21
0	0.02	0.00	52.21

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LUMENS TABULATION - (Cont.)

-1			
	0.03	0.00	104.33
-3			
	0.03	0.00	104.40
-5			
	0.03	0.00	104.45
-7			
	0.03	0.00	104.50
-9			
	0.03	0.00	104.60
-11			
	0.03	0.00	104.85
-13			
	0.03	0.00	105.18
-15			
	0.03	0.00	105.53
-17			
	0.04	0.00	132.31
-19.5			
	0.04	0.00	159.24
-22.5			
	0.04	0.00	159.65
-25.5			
	0.04	0.00	186.21
-29			
	0.05	0.00	210.93
-33			
	0.05	0.00	230.41
-37.5			
	0.05	0.00	238.01
-42.5			
	0.04	0.00	203.64
-47.5			
	0.05	0.00	198.16
-55			
	0.05	0.00	95.42
-65			
	0.03	0.00	16.12
-75			
	0.01	0.00	3.68
-85			
	0.00	0.00	0.25
-90			
Total	1.50	0.03	5448.17

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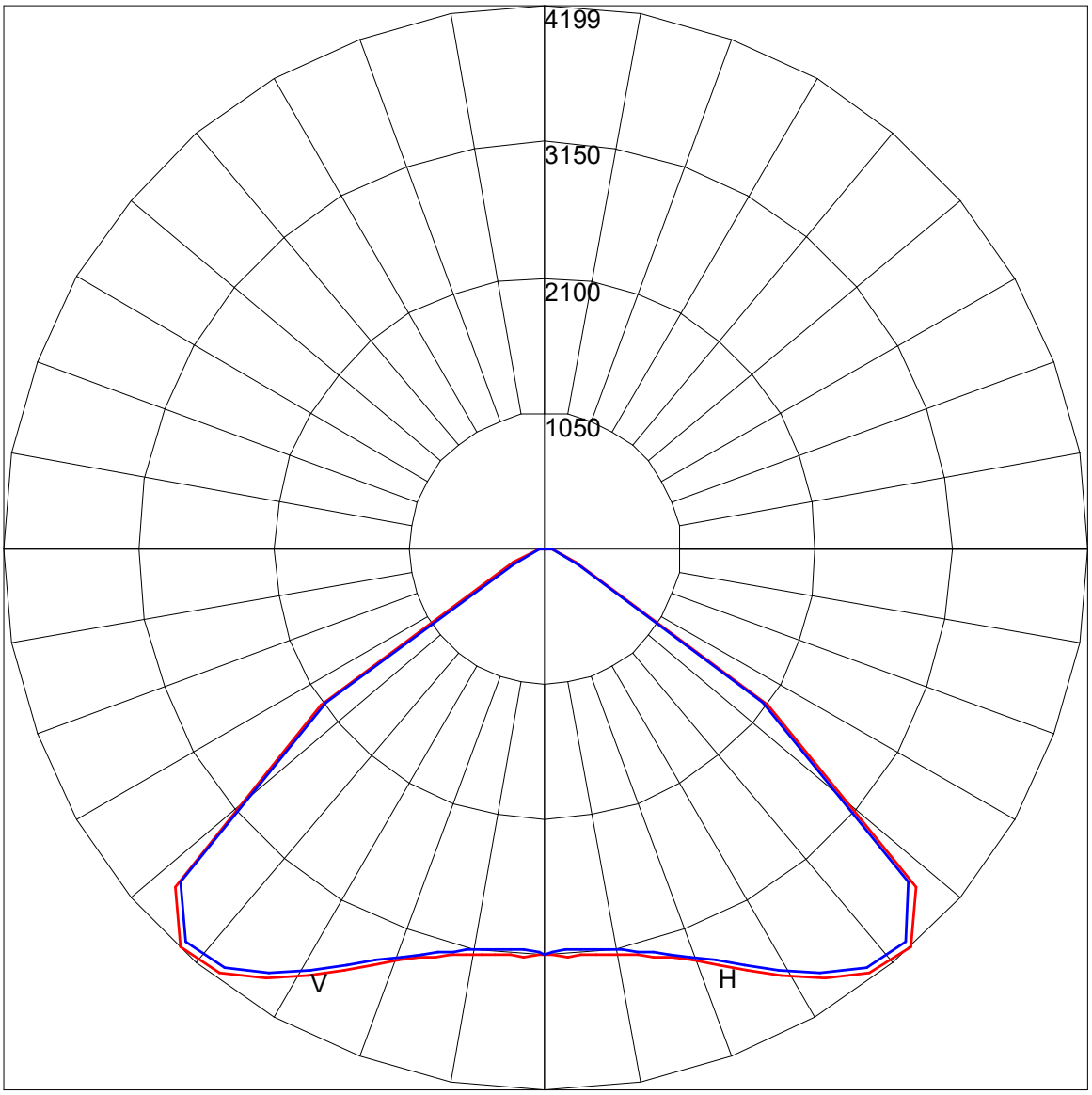
AXIAL CANDELA DISPLAY



Maximum Candela = 4199.469 Located At Horizontal Angle =-33, Vertical Angle =-25.5
H - Horizontal Axial Candela
V - Vertical Axial Candela

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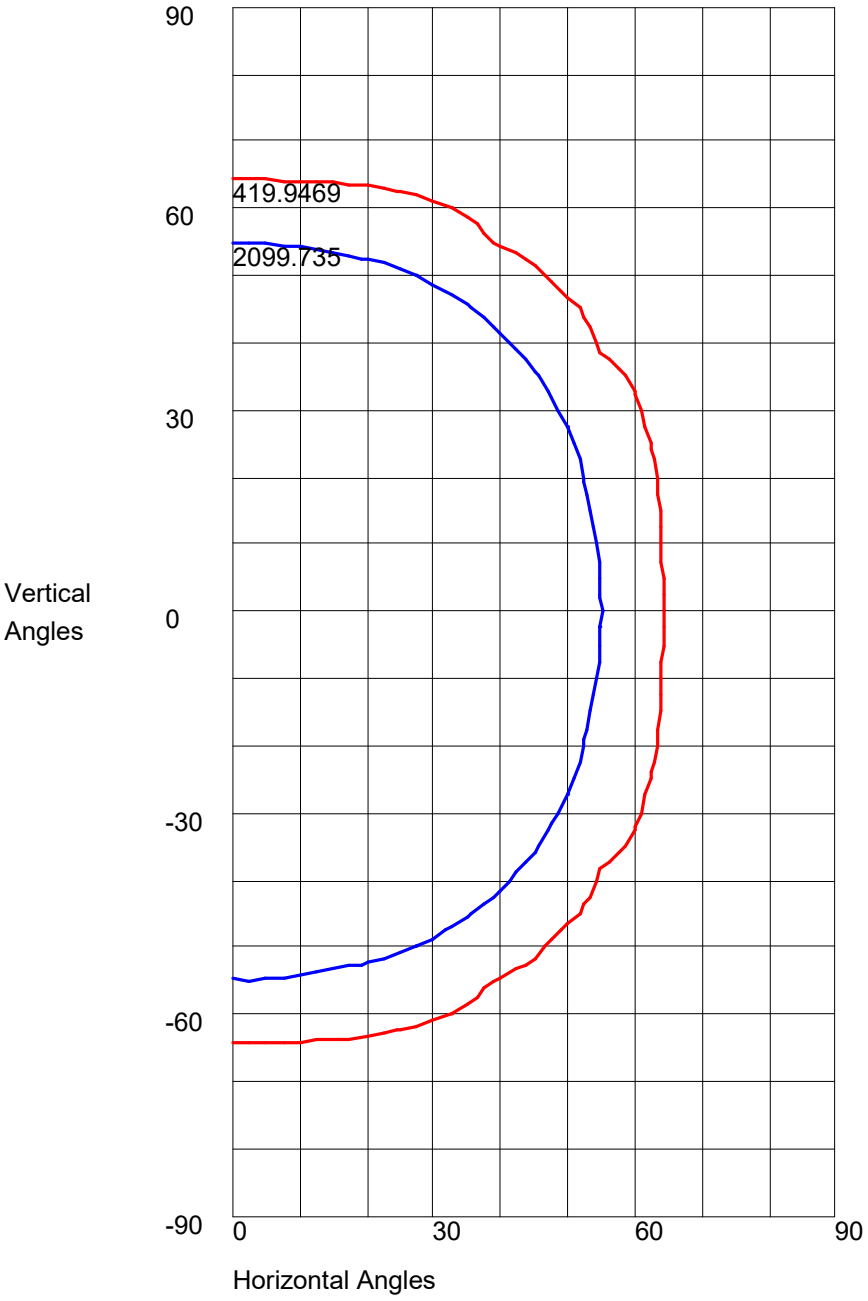
PHOTOMETRIC FILENAME : 810090EX.LDT

ISOCANDELA CURVES



Maximum Candela = 4199.469 Located At Horizontal Angle =-33, Vertical Angle =-25.5
50% Maximum Candela = 2099.7345
10% Maximum Candela = 419.9469