

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P888185

Luminaire Tested: **DPT5-6FO44-109V60-A-XX-UDD_2700K**

Issue Date: 10/24/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P888185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (DEFINE LENGTH SCALING TOOL)
Test Lab: INNOVATIONS CENTER
Issue Date: 10/24/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: DPT5-6FO44-109V60-A-XX-UDD_2700K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

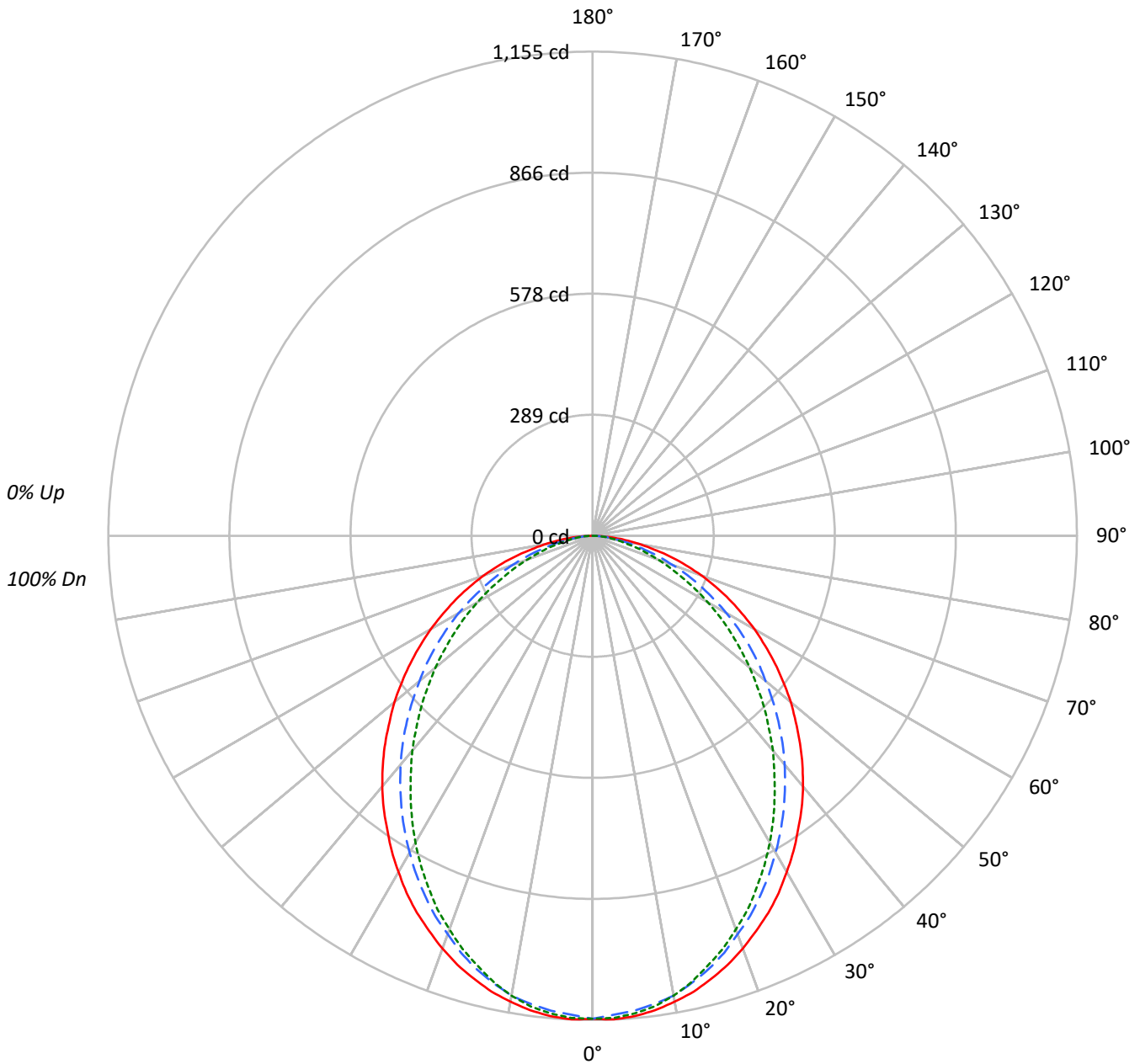
Lumens per Lamp: N/A
Luminaire Lumens: 2722.0 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 3.56' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 31.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85																			
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	72																			
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61																			
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53																			
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46																			
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41																			
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36																			
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33																			
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29																			
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8907	8907	8907
5°	8927	8826	8879
10°	8860	8743	8743
15°	8755	8565	8497
20°	8619	8318	8219
25°	8461	8075	7898
30°	8265	7791	7543
35°	8064	7498	7144
40°	7878	7191	6753
45°	7649	6848	6327
50°	7419	6478	5882
55°	7156	6125	5409
60°	6888	5690	4897
65°	6576	5191	4312
70°	6216	4561	3718
75°	5717	3847	3094
80°	5040	3027	2600
85°	4240	2475	2315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	4.0
10°-20°	303.0	11.1
20°-30°	439.4	16.1
30°-40°	500.6	18.4
40°-50°	487.9	17.9
50°-60°	410.6	15.1
60°-70°	287.7	10.6
70°-80°	147.5	5.4
80°-90°	36.8	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	850.8	31.3
0°-40°	1351.4	49.6
0°-60°	2249.9	82.7
0°-90°	2722.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2722.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1152	1152	1152	1152	1152	
5°	1150	1147	1137	1146	1144	109
15°	1094	1089	1070	1069	1062	308
25°	992	979	947	935	926	457
35°	854	834	794	769	757	535
45°	700	674	626	592	579	540
55°	531	503	454	415	401	475
65°	360	330	284	249	236	356
75°	191	165	129	110	104	202
85°	48	32	28	27	26	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1152.2	1152.2	1152.2	1152.2	1152.2
2.5°	1154.8	1152.2	1143.5	1152.2	1151.2
5°	1150.4	1147.0	1137.3	1145.9	1144.1
7.5°	1141.7	1138.1	1126.8	1133.8	1132.2
10°	1128.6	1126.0	1113.8	1116.5	1113.8
12.5°	1113.8	1110.2	1092.8	1094.5	1090.3
15°	1093.9	1088.6	1070.2	1069.4	1061.6
17.5°	1072.9	1065.2	1043.2	1039.0	1032.9
20°	1047.6	1039.0	1011.1	1006.7	999.0
22.5°	1019.8	1011.1	981.7	972.0	965.7
25°	991.9	978.8	946.7	935.4	925.9
27.5°	960.7	944.9	911.0	896.3	886.8
30°	925.9	909.4	872.8	852.9	845.0
32.5°	891.8	872.0	834.5	811.9	801.6
35°	854.5	833.7	794.5	769.3	757.0
37.5°	818.8	793.5	753.5	724.1	711.7
40°	780.6	754.4	712.6	679.5	669.2
42.5°	740.4	713.4	669.9	638.7	622.1
45°	699.6	674.5	626.4	591.7	578.7
47.5°	656.8	631.0	582.9	547.4	532.5
50°	616.9	588.2	538.6	502.2	489.1
52.5°	573.3	544.0	497.6	457.6	444.5
55°	530.9	503.0	454.4	415.2	401.3
57.5°	487.3	457.6	410.8	372.4	360.3
60°	445.5	415.2	368.0	329.8	316.7
62.5°	401.3	372.4	324.6	289.7	276.7
65°	359.5	329.8	283.8	248.7	235.7
67.5°	317.5	288.1	243.6	210.6	200.3
70°	275.0	245.3	201.8	174.8	164.5
72.5°	233.2	204.5	164.5	140.1	134.1
75°	191.4	165.3	128.8	109.8	103.6
77.5°	148.7	127.8	97.3	82.8	77.5
80°	113.2	92.3	68.0	60.0	58.4
82.5°	78.3	60.0	45.4	42.5	41.8
85°	47.8	32.1	27.9	27.0	26.1
87.5°	20.2	13.9	13.1	13.1	12.1
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)