

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: P888457

Luminaire Tested: **DPT5-6FO44-109S30-F-XX-UDD**

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: P888457
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: DPT5-6FO44-109S30-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

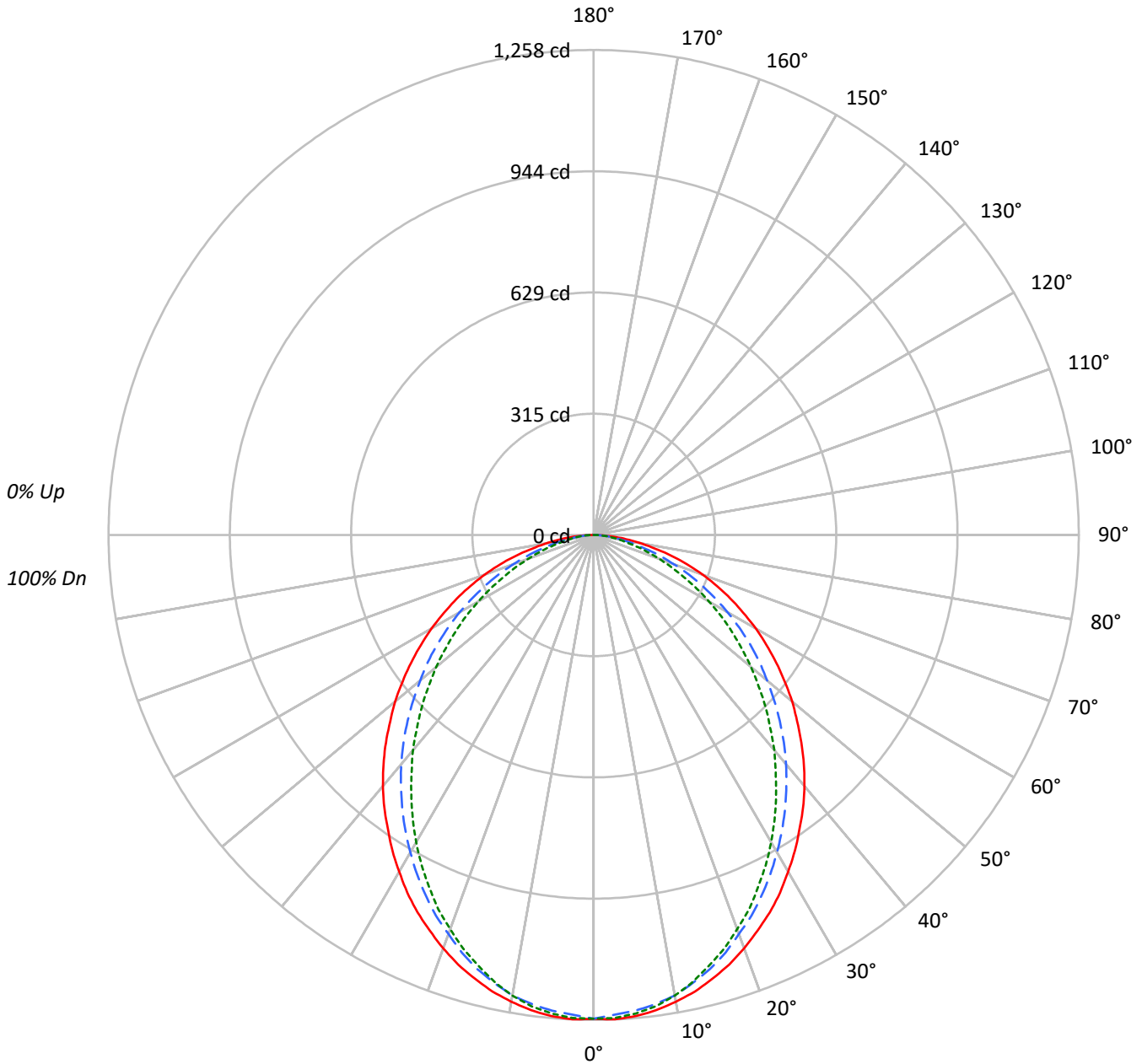
Lumens per Lamp: N/A
Luminaire Lumens: 2965.0 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')
CIE Type: Direct

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°	9702	9702	9702
5°	9724	9613	9671
10°	9651	9524	9524
15°	9537	9330	9255
20°	9388	9061	8953
25°	9216	8796	8602
30°	9003	8487	8216
35°	8784	8167	7782
40°	8581	7834	7357
45°	8331	7461	6891
50°	8082	7056	6407
55°	7794	6670	5891
60°	7504	6199	5334
65°	7163	5654	4696
70°	6772	4968	4051
75°	6228	4191	3372
80°	5489	3294	2831
85°	4612	2697	2528



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.1	4.0
10°-20°	330.1	11.1
20°-30°	478.6	16.1
30°-40°	545.3	18.4
40°-50°	531.5	17.9
50°-60°	447.3	15.1
60°-70°	313.4	10.6
70°-80°	160.7	5.4
80°-90°	40.1	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°	926.8	31.3
0°-40°	1472.1	49.6
0°-60°	2450.8	82.7
0°-90°	2965.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2965.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1255	1255	1255	1255	1255	
5°	1253	1249	1239	1248	1246	119
15°	1192	1186	1166	1165	1156	336
25°	1080	1066	1031	1019	1008	497
35°	931	908	865	838	825	583
45°	762	735	682	645	630	588
55°	578	548	495	452	437	517
65°	392	359	309	271	257	388
75°	208	180	140	120	113	220
85°	52	35	30	29	28	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1255.0	1255.0	1255.0	1255.0	1255.0
2.5°	1257.8	1255.0	1245.5	1255.0	1254.0
5°	1253.1	1249.4	1238.8	1248.2	1246.2
7.5°	1243.6	1239.7	1227.4	1235.0	1233.2
10°	1229.4	1226.5	1213.2	1216.2	1213.2
12.5°	1213.2	1209.3	1190.3	1192.3	1187.7
15°	1191.6	1185.8	1165.7	1164.8	1156.4
17.5°	1168.7	1160.3	1136.3	1131.8	1125.1
20°	1141.1	1131.8	1101.4	1096.6	1088.2
22.5°	1110.8	1101.4	1069.4	1058.8	1051.9
25°	1080.4	1066.2	1031.2	1018.9	1008.5
27.5°	1046.5	1029.3	992.3	976.3	966.0
30°	1008.5	990.6	950.7	929.0	920.4
32.5°	971.4	949.8	909.0	884.4	873.1
35°	930.8	908.1	865.4	838.0	824.6
37.5°	892.0	864.3	820.7	788.7	775.2
40°	850.3	821.8	776.3	740.2	729.0
42.5°	806.5	777.1	729.7	695.7	677.6
45°	762.0	734.8	682.4	644.6	630.3
47.5°	715.4	687.3	634.9	596.2	580.0
50°	672.0	640.7	586.7	547.0	532.7
52.5°	624.5	592.5	542.1	498.5	484.2
55°	578.3	547.9	494.9	452.2	437.1
57.5°	530.8	498.5	447.5	405.6	392.4
60°	485.3	452.2	400.9	359.2	345.0
62.5°	437.1	405.6	353.6	315.6	301.4
65°	391.6	359.2	309.1	270.9	256.7
67.5°	345.8	313.8	265.3	229.4	218.2
70°	299.6	267.3	219.8	190.4	179.2
72.5°	254.1	222.8	179.2	152.6	146.1
75°	208.5	180.0	140.3	119.6	112.9
77.5°	161.9	139.3	106.0	90.2	84.4
80°	123.3	100.6	74.0	65.4	63.6
82.5°	85.3	65.4	49.4	46.2	45.5
85°	52.0	35.0	30.4	29.4	28.5
87.5°	22.0	15.1	14.2	14.2	13.2
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)