

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: P888460

Luminaire Tested: **DPT5-6FO44-109V60-F-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: P888460
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-F-XX-UDD_2700K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

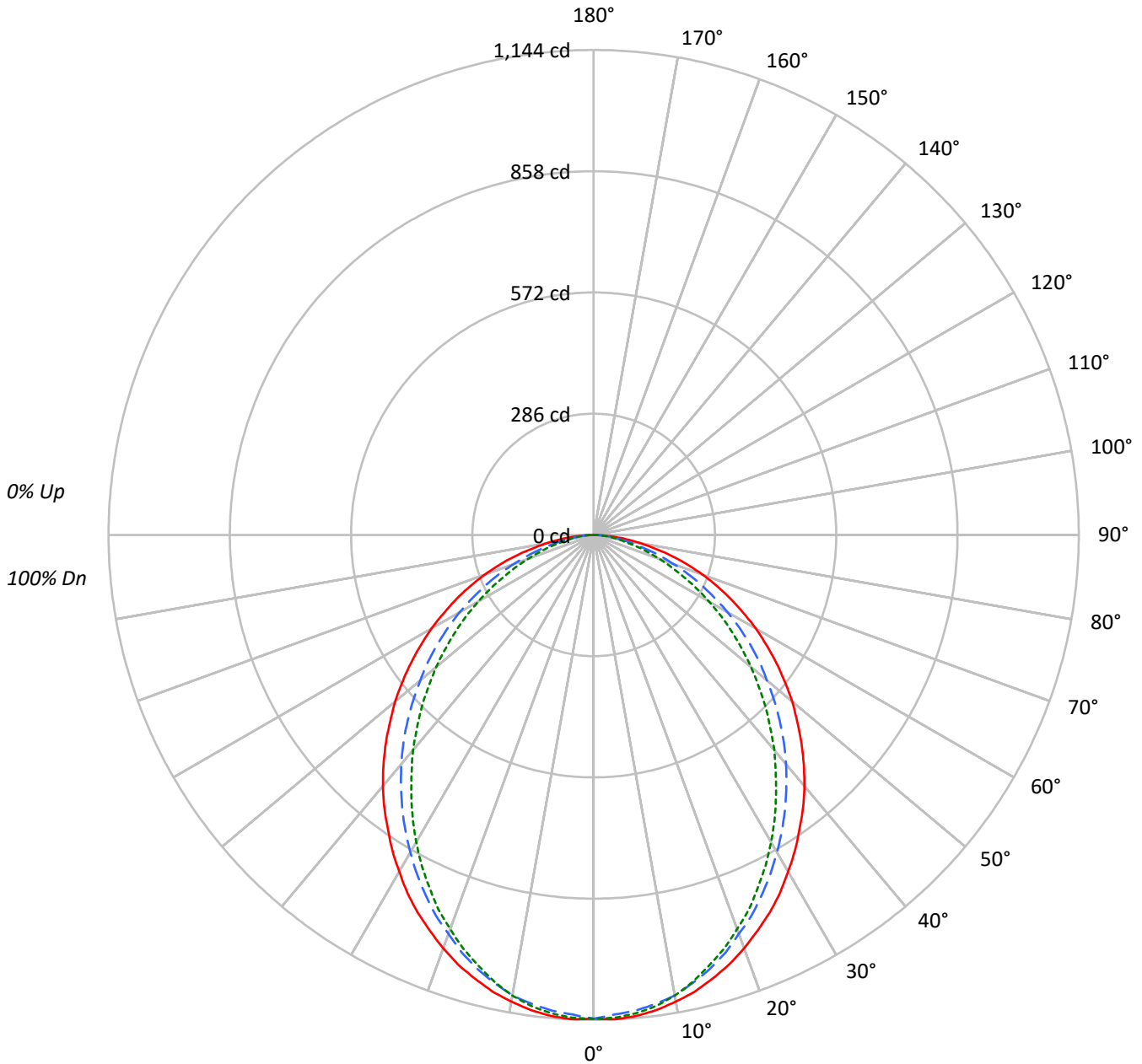
Lumens per Lamp: N/A
Luminaire Lumens: 2696.0 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')
CIE Type: Direct

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°	8822	8822	8822
5°	8842	8742	8794
10°	8775	8659	8659
15°	8671	8483	8416
20°	8536	8238	8140
25°	8380	7998	7822
30°	8186	7716	7471
35°	7988	7426	7076
40°	7802	7123	6689
45°	7575	6784	6266
50°	7348	6416	5826
55°	7087	6065	5356
60°	6822	5636	4850
65°	6512	5142	4269
70°	6157	4516	3682
75°	5663	3811	3065
80°	4991	2996	2578
85°	4196	2457	2297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	4.0
10°-20°	300.1	11.1
20°-30°	435.2	16.1
30°-40°	495.8	18.4
40°-50°	483.2	17.9
50°-60°	406.7	15.1
60°-70°	285.0	10.6
70°-80°	146.1	5.4
80°-90°	36.4	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°	842.7	31.3
0°-40°	1338.5	49.6
0°-60°	2228.4	82.7
0°-90°	2696.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2696.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1141	1141	1141	1141	1141	
5°	1139	1136	1126	1135	1133	108
15°	1083	1078	1060	1059	1052	305
25°	982	970	938	926	917	452
35°	846	826	787	762	750	530
45°	693	668	620	586	573	534
55°	526	498	450	411	397	470
65°	356	327	281	246	233	352
75°	190	164	128	109	103	200
85°	47	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°	1141.2	1141.2	1141.2	1141.2	1141.2
2.5°	1143.7	1141.2	1132.5	1141.2	1140.2
5°	1139.4	1136.0	1126.5	1134.9	1133.2
7.5°	1130.8	1127.3	1116.1	1122.9	1121.3
10°	1117.8	1115.3	1103.1	1105.8	1103.1
12.5°	1103.1	1099.6	1082.3	1084.1	1079.9
15°	1083.4	1078.2	1059.9	1059.1	1051.5
17.5°	1062.7	1055.0	1033.2	1029.1	1023.0
20°	1037.6	1029.1	1001.4	997.1	989.4
22.5°	1010.1	1001.4	972.3	962.7	956.5
25°	982.4	969.5	937.6	926.5	917.0
27.5°	951.6	935.9	902.3	887.8	878.3
30°	917.0	900.7	864.4	844.8	836.9
32.5°	883.3	863.6	826.5	804.2	793.9
35°	846.4	825.7	786.9	761.9	749.8
37.5°	811.0	785.9	746.3	717.2	704.9
40°	773.1	747.2	705.8	673.1	662.8
42.5°	733.3	706.6	663.5	632.6	616.1
45°	692.9	668.1	620.5	586.1	573.1
47.5°	650.5	624.9	577.3	542.1	527.4
50°	611.0	582.6	533.5	497.4	484.4
52.5°	567.9	538.8	492.9	453.2	440.3
55°	525.8	498.2	450.0	411.2	397.4
57.5°	482.7	453.2	406.9	368.8	356.8
60°	441.2	411.2	364.5	326.6	313.7
62.5°	397.4	368.8	321.5	287.0	274.0
65°	356.0	326.6	281.1	246.4	233.4
67.5°	314.5	285.4	241.2	208.6	198.4
70°	272.4	243.0	199.8	173.1	162.9
72.5°	231.0	202.6	162.9	138.8	132.9
75°	189.6	163.7	127.6	108.7	102.6
77.5°	147.2	126.6	96.4	82.0	76.7
80°	112.1	91.4	67.3	59.5	57.9
82.5°	77.5	59.5	44.9	42.0	41.4
85°	47.3	31.8	27.7	26.7	25.9
87.5°	20.0	13.7	12.9	12.9	12.0
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)