

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: P888189

Luminaire Tested: **DPT5-6FO44-109V60-A-XX-UDD_4500K**

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: P888189
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_4500K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

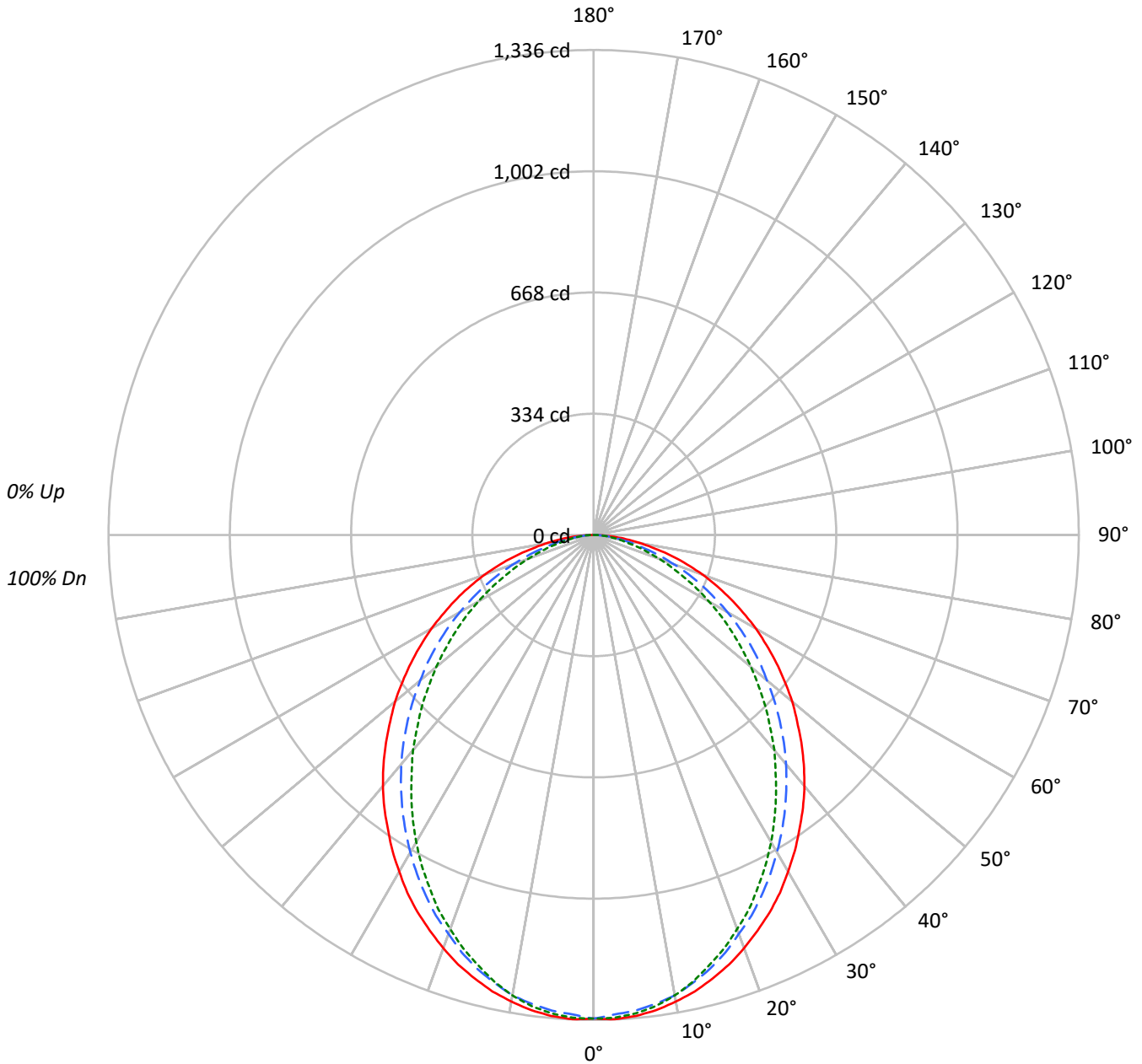
Lumens per Lamp: N/A
Luminaire Lumens: 3148.0 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 3.56' x L: 0.39' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10301	10301	10301
5°	10324	10207	10268
10°	10246	10112	10112
15°	10125	9906	9827
20°	9967	9620	9505
25°	9785	9339	9134
30°	9559	9011	8723
35°	9327	8671	8263
40°	9111	8318	7811
45°	8845	7921	7316
50°	8581	7492	6802
55°	8276	7083	6255
60°	7966	6580	5664
65°	7604	6004	4985
70°	7190	5273	4299
75°	6613	4451	3578
80°	5828	3499	3010
85°	4905	2865	2679



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.4	4.0
10°-20°	350.4	11.1
20°-30°	508.1	16.1
30°-40°	578.9	18.4
40°-50°	564.2	17.9
50°-60°	474.9	15.1
60°-70°	332.8	10.6
70°-80°	170.6	5.4
80°-90°	42.6	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°	984.0	31.3
0°-40°	1562.9	49.6
0°-60°	2602.1	82.7
0°-90°	3148.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3148.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1332	1332	1332	1332	1332	
5°	1330	1326	1315	1325	1323	126
15°	1265	1259	1238	1237	1228	357
25°	1147	1132	1095	1082	1071	528
35°	988	964	919	890	876	619
45°	809	780	724	684	669	624
55°	614	582	526	480	464	549
65°	416	381	328	288	272	412
75°	221	191	149	127	120	234
85°	55	37	32	31	30	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1332.5	1332.5	1332.5	1332.5	1332.5
2.5°	1335.5	1332.5	1322.4	1332.5	1331.4
5°	1330.4	1326.5	1315.3	1325.2	1323.2
7.5°	1320.4	1316.2	1303.2	1311.2	1309.3
10°	1305.2	1302.2	1288.1	1291.2	1288.1
12.5°	1288.1	1283.9	1263.8	1265.8	1261.0
15°	1265.1	1258.9	1237.7	1236.7	1227.8
17.5°	1240.8	1231.9	1206.5	1201.6	1194.5
20°	1211.5	1201.6	1169.3	1164.3	1155.3
22.5°	1179.4	1169.3	1135.4	1124.2	1116.9
25°	1147.1	1132.0	1094.8	1081.8	1070.8
27.5°	1111.1	1092.8	1053.6	1036.6	1025.6
30°	1070.8	1051.7	1009.4	986.4	977.2
32.5°	1031.4	1008.4	965.1	939.0	927.0
35°	988.3	964.2	918.8	889.7	875.5
37.5°	947.0	917.7	871.4	837.4	823.0
40°	902.8	872.5	824.2	785.9	774.0
42.5°	856.3	825.1	774.7	738.7	719.4
45°	809.0	780.1	724.5	684.3	669.2
47.5°	759.6	729.7	674.1	633.0	615.8
50°	713.5	680.2	622.9	580.7	565.6
52.5°	663.1	629.1	575.5	529.2	514.1
55°	614.0	581.7	525.5	480.1	464.1
57.5°	563.6	529.2	475.1	430.7	416.7
60°	515.2	480.1	425.6	381.4	366.3
62.5°	464.1	430.7	375.4	335.1	320.0
65°	415.7	381.4	328.2	287.7	272.5
67.5°	367.2	333.2	281.7	243.6	231.7
70°	318.1	283.7	233.3	202.2	190.2
72.5°	269.7	236.5	190.2	162.0	155.1
75°	221.4	191.2	149.0	126.9	119.8
77.5°	171.9	147.8	112.6	95.8	89.6
80°	130.9	106.8	78.6	69.4	67.6
82.5°	90.5	69.4	52.5	49.1	48.3
85°	55.3	37.1	32.3	31.2	30.2
87.5°	23.3	16.1	15.1	15.1	14.0
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)