

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: P888476

Luminaire Tested: **DPT5-6FO44-127V60-F-XX-UDD_5000K**

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: P888476
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: DPT5-6FO44-127V60-F-XX-UDD_5000K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

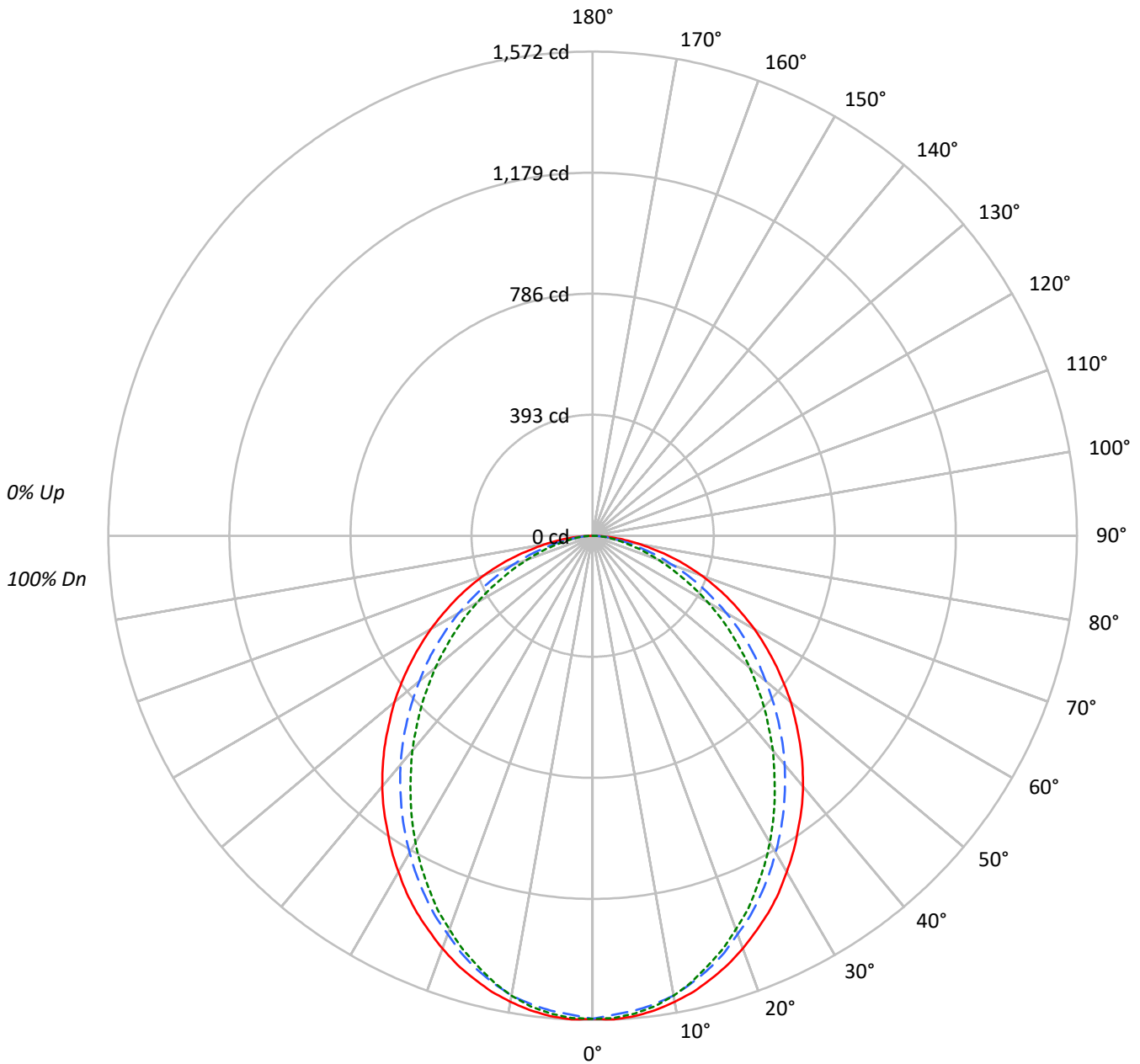
Lumens per Lamp: N/A
Luminaire Lumens: 3705.0 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')
CIE Type: Direct

Input Watts (W): 37
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°	12124	12124	12124
5°	12151	12013	12085
10°	12059	11901	11901
15°	11916	11658	11565
20°	11731	11322	11187
25°	11516	10992	10749
30°	11249	10604	10268
35°	10977	10206	9724
40°	10723	9789	9193
45°	10410	9323	8611
50°	10099	8818	8006
55°	9739	8336	7362
60°	9376	7745	6665
65°	8951	7065	5868
70°	8463	6207	5061
75°	7784	5236	4215
80°	6856	4118	3539
85°	5766	3371	3158



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.6	4.0
10°-20°	412.4	11.1
20°-30°	598.0	16.1
30°-40°	681.4	18.4
40°-50°	664.1	17.9
50°-60°	558.9	15.1
60°-70°	391.7	10.6
70°-80°	200.8	5.4
80°-90°	50.1	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°	1158.1	31.3
0°-40°	1839.5	49.6
0°-60°	3062.5	82.7
0°-90°	3705.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3705.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1568	1568	1568	1568	1568	
5°	1566	1561	1548	1560	1557	149
15°	1489	1482	1457	1456	1445	420
25°	1350	1332	1289	1273	1260	621
35°	1163	1135	1081	1047	1030	728
45°	952	918	853	805	788	734
55°	723	685	618	565	546	646
65°	489	449	386	339	321	484
75°	261	225	175	149	141	275
85°	65	44	38	37	36	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1568.3	1568.3	1568.3	1568.3	1568.3
2.5°	1571.8	1568.3	1556.4	1568.3	1566.9
5°	1565.8	1561.2	1548.0	1559.7	1557.3
7.5°	1554.0	1549.1	1533.8	1543.2	1541.0
10°	1536.2	1532.7	1516.0	1519.7	1516.0
12.5°	1516.0	1511.1	1487.4	1489.8	1484.1
15°	1488.9	1481.7	1456.6	1455.5	1445.0
17.5°	1460.4	1449.8	1420.0	1414.2	1405.9
20°	1425.9	1414.2	1376.2	1370.3	1359.8
22.5°	1388.1	1376.2	1336.2	1323.1	1314.5
25°	1350.1	1332.3	1288.6	1273.2	1260.2
27.5°	1307.7	1286.2	1240.0	1220.0	1207.1
30°	1260.2	1237.8	1187.9	1160.9	1150.2
32.5°	1213.9	1186.8	1135.9	1105.1	1091.1
35°	1163.1	1134.8	1081.4	1047.1	1030.4
37.5°	1114.6	1080.1	1025.6	985.6	968.7
40°	1062.5	1026.9	970.0	925.0	910.9
42.5°	1007.8	971.1	911.8	869.4	846.7
45°	952.2	918.1	852.7	805.4	787.6
47.5°	894.0	858.8	793.4	745.0	724.8
50°	839.7	800.6	733.2	683.5	665.7
52.5°	780.4	740.4	677.3	622.9	605.1
55°	722.6	684.6	618.5	565.1	546.2
57.5°	663.3	622.9	559.1	506.9	490.4
60°	606.4	565.1	500.9	448.9	431.1
62.5°	546.2	506.9	441.8	394.4	376.6
65°	489.3	448.9	386.2	338.6	320.8
67.5°	432.2	392.2	331.5	286.7	272.7
70°	374.4	334.0	274.6	237.9	223.9
72.5°	317.5	278.4	223.9	190.7	182.6
75°	260.6	225.0	175.3	149.4	141.1
77.5°	202.3	174.0	132.5	112.7	105.5
80°	154.0	125.7	92.5	81.7	79.5
82.5°	106.6	81.7	61.7	57.8	56.9
85°	65.0	43.7	38.0	36.7	35.6
87.5°	27.5	18.9	17.8	17.8	16.5
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)