

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: P888200

Luminaire Tested: **DPT5-6FO44-127V60-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: P888200
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-A-XX-UDD_4500K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

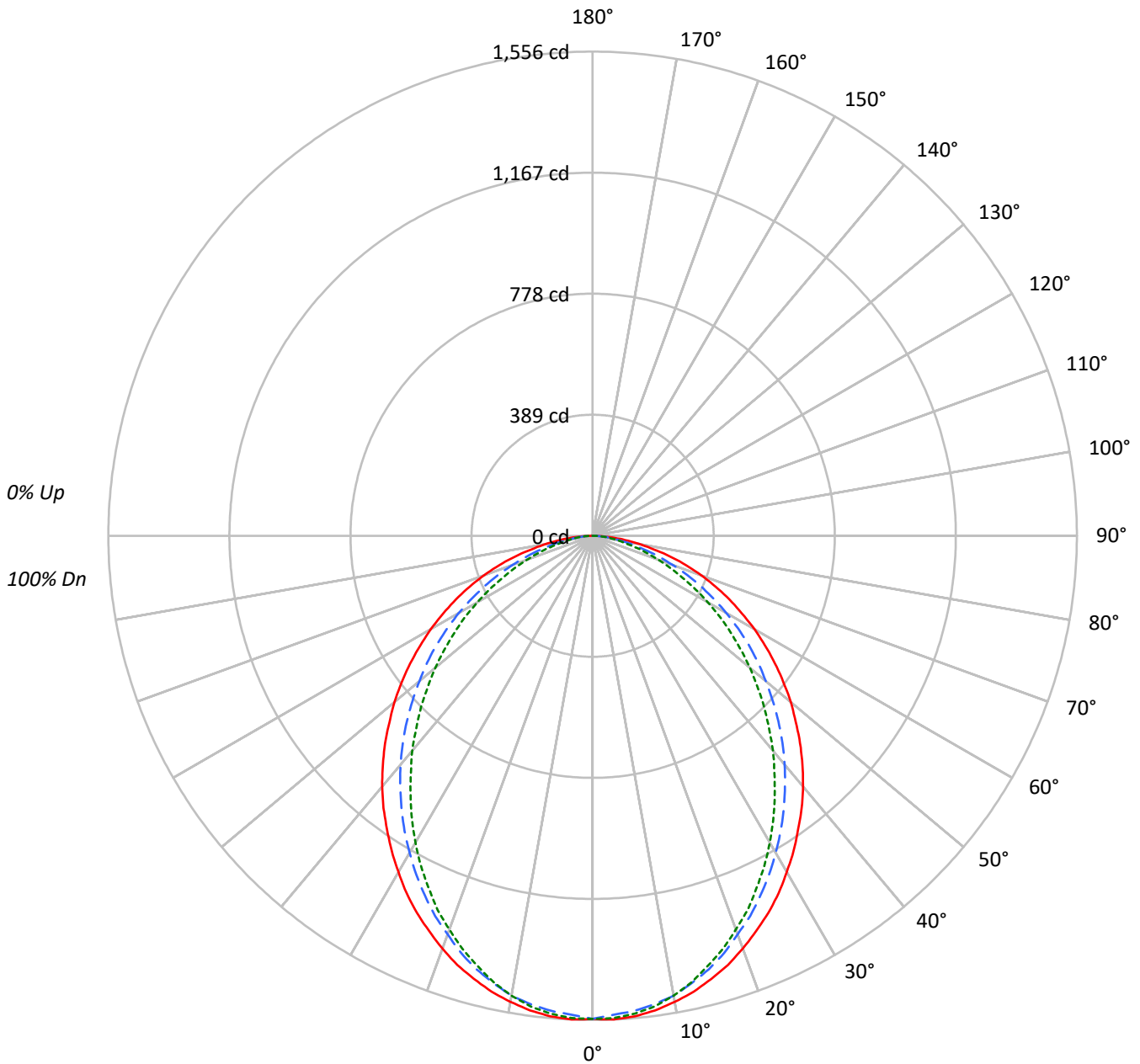
Lumens per Lamp: N/A
Luminaire Lumens: 3668.0 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 3.56' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	12003	12003	12003
5°	12030	11893	11964
10°	11938	11781	11781
15°	11798	11542	11450
20°	11613	11209	11075
25°	11401	10882	10642
30°	11137	10499	10165
35°	10867	10104	9627
40°	10616	9691	9101
45°	10307	9230	8526
50°	9998	8729	7927
55°	9642	8253	7288
60°	9282	7667	6599
65°	8861	6995	5810
70°	8377	6146	5009
75°	7706	5185	4170
80°	6789	4078	3504
85°	5712	3335	3122



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.1	4.0
10°-20°	408.3	11.1
20°-30°	592.1	16.1
30°-40°	674.6	18.4
40°-50°	657.5	17.9
50°-60°	553.3	15.1
60°-70°	387.7	10.6
70°-80°	198.8	5.4
80°-90°	49.6	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°	1146.5	31.3
0°-40°	1821.1	49.6
0°-60°	3031.9	82.7
0°-90°	3668.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3668.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1553	1553	1553	1553	1553	
5°	1550	1546	1533	1544	1542	147
15°	1474	1467	1442	1441	1431	416
25°	1337	1319	1276	1260	1248	615
35°	1152	1123	1071	1037	1020	721
45°	943	909	844	797	780	727
55°	715	678	612	559	541	640
65°	484	444	382	335	318	480
75°	258	223	174	148	140	273
85°	64	43	38	36	35	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1552.6	1552.6	1552.6	1552.6	1552.6
2.5°	1556.1	1552.6	1540.8	1552.6	1551.3
5°	1550.2	1545.6	1532.6	1544.1	1541.7
7.5°	1538.5	1533.7	1518.4	1527.8	1525.6
10°	1520.8	1517.4	1500.8	1504.5	1500.8
12.5°	1500.8	1496.0	1472.5	1474.9	1469.3
15°	1474.1	1466.9	1442.1	1441.0	1430.6
17.5°	1445.8	1435.4	1405.8	1400.1	1391.9
20°	1411.6	1400.1	1362.5	1356.6	1346.2
22.5°	1374.2	1362.5	1322.9	1309.8	1301.4
25°	1336.6	1319.0	1275.7	1260.5	1247.6
27.5°	1294.6	1273.3	1227.6	1207.8	1195.0
30°	1247.6	1225.5	1176.1	1149.3	1138.7
32.5°	1201.7	1175.0	1124.5	1094.1	1080.2
35°	1151.5	1123.4	1070.6	1036.7	1020.1
37.5°	1103.4	1069.3	1015.3	975.8	959.0
40°	1051.9	1016.6	960.3	915.7	901.8
42.5°	997.7	961.4	902.7	860.7	838.3
45°	942.7	909.0	844.2	797.4	779.8
47.5°	885.1	850.2	785.4	737.6	717.6
50°	831.3	792.6	725.8	676.7	659.1
52.5°	772.6	733.0	670.6	616.6	599.0
55°	715.4	677.8	612.3	559.4	540.7
57.5°	656.7	616.6	553.6	501.8	485.5
60°	600.3	559.4	495.9	444.4	426.8
62.5°	540.7	501.8	437.4	390.4	372.8
65°	484.4	444.4	382.4	335.2	317.6
67.5°	427.8	388.3	328.2	283.9	269.9
70°	370.6	330.6	271.9	235.6	221.6
72.5°	314.3	275.6	221.6	188.8	180.8
75°	258.0	222.7	173.6	147.9	139.6
77.5°	200.3	172.3	131.2	111.6	104.4
80°	152.5	124.4	91.6	80.9	78.7
82.5°	105.5	80.9	61.1	57.2	56.3
85°	64.4	43.3	37.6	36.3	35.2
87.5°	27.2	18.7	17.6	17.6	16.3
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)