

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: P888477

Luminaire Tested: **DPT5-6FO44-127V60-F-XX-UDD_6500K**

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: P888477
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_6500K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

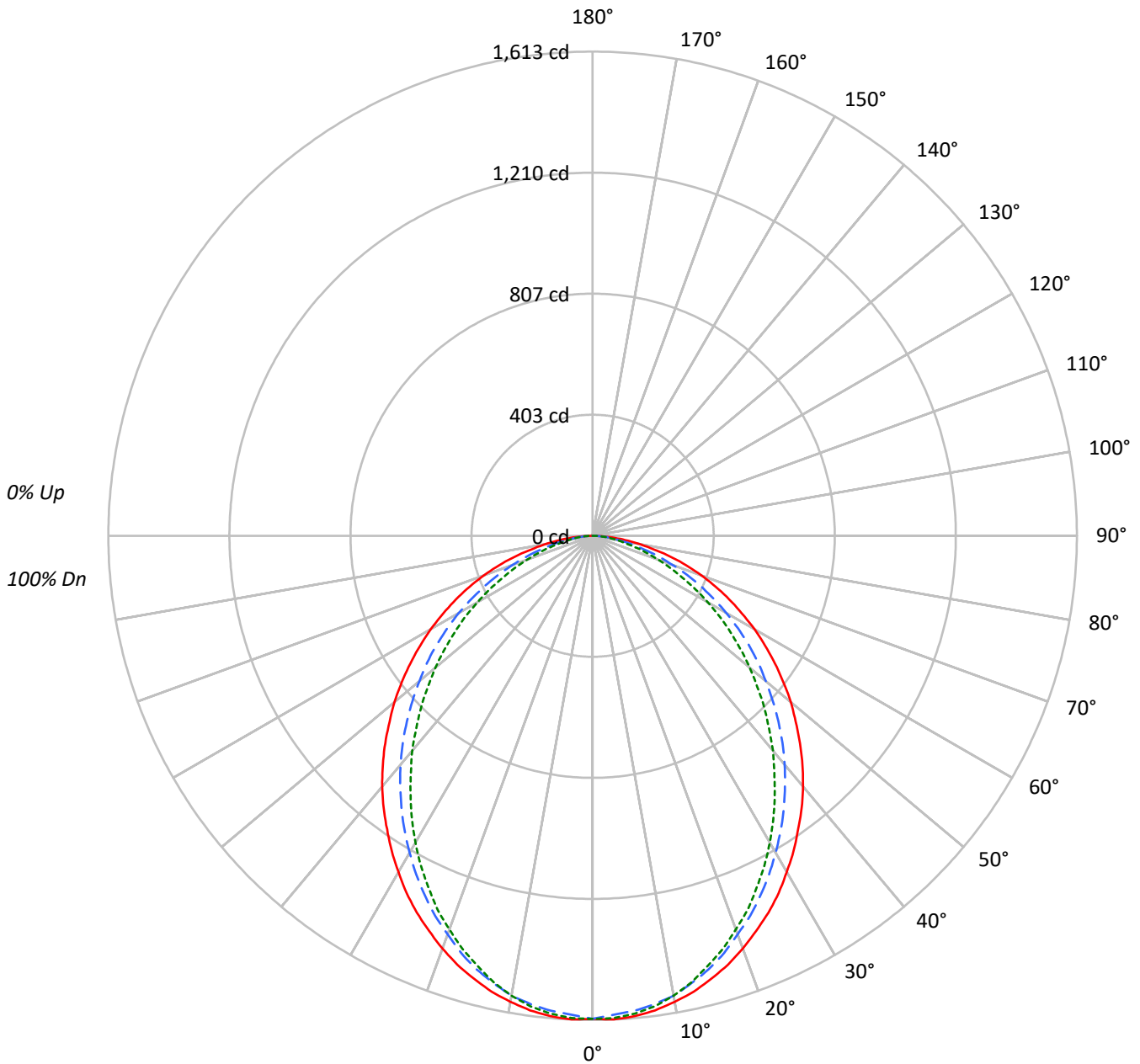
Lumens per Lamp: N/A
Luminaire Lumens: 3802.0 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	12441	12441	12441
5°	12469	12328	12401
10°	12375	12212	12212
15°	12229	11964	11868
20°	12038	11619	11480
25°	11817	11279	11031
30°	11544	10882	10536
35°	11265	10473	9979
40°	11003	10045	9433
45°	10683	9566	8837
50°	10364	9048	8216
55°	9994	8555	7555
60°	9622	7947	6839
65°	9185	7251	6022
70°	8684	6370	5192
75°	7987	5374	4322
80°	7034	4225	3633
85°	5916	3459	3238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.5	4.0
10°-20°	423.2	11.1
20°-30°	613.7	16.1
30°-40°	699.2	18.4
40°-50°	681.5	17.9
50°-60°	573.5	15.1
60°-70°	401.9	10.6
70°-80°	206.1	5.4
80°-90°	51.4	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°	1188.4	31.3
0°-40°	1887.6	49.6
0°-60°	3142.6	82.7
0°-90°	3802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3802.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1609	1609	1609	1609	1609	
5°	1607	1602	1589	1600	1598	152
15°	1528	1520	1495	1494	1483	431
25°	1385	1367	1322	1306	1293	638
35°	1194	1164	1110	1074	1057	747
45°	977	942	875	826	808	754
55°	742	702	635	580	560	663
65°	502	461	396	347	329	497
75°	267	231	180	153	145	283
85°	67	45	39	38	36	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1609.3	1609.3	1609.3	1609.3	1609.3
2.5°	1612.9	1609.3	1597.1	1609.3	1608.0
5°	1606.8	1602.1	1588.6	1600.5	1598.0
7.5°	1594.7	1589.7	1573.9	1583.6	1581.4
10°	1576.4	1572.8	1555.7	1559.5	1555.7
12.5°	1555.7	1550.7	1526.3	1528.8	1523.0
15°	1527.9	1520.5	1494.8	1493.7	1482.8
17.5°	1498.6	1487.8	1457.1	1451.3	1442.7
20°	1463.2	1451.3	1412.3	1406.2	1395.4
22.5°	1424.4	1412.3	1371.2	1357.7	1348.9
25°	1385.4	1367.2	1322.3	1306.5	1293.2
27.5°	1341.9	1319.8	1272.5	1252.0	1238.7
30°	1293.2	1270.2	1219.0	1191.3	1180.3
32.5°	1245.6	1217.9	1165.6	1134.0	1119.6
35°	1193.6	1164.5	1109.7	1074.5	1057.4
37.5°	1143.7	1108.3	1052.4	1011.4	994.0
40°	1090.3	1053.8	995.4	949.2	934.7
42.5°	1034.2	996.5	935.6	892.1	868.9
45°	977.1	942.2	875.0	826.5	808.3
47.5°	917.4	881.3	814.1	764.5	743.8
50°	861.7	821.6	752.3	701.4	683.1
52.5°	800.8	759.8	695.1	639.2	620.9
55°	741.5	702.5	634.7	579.9	560.5
57.5°	680.7	639.2	573.8	520.1	503.2
60°	622.3	579.9	514.0	460.6	442.3
62.5°	560.5	520.1	453.4	404.7	386.4
65°	502.1	460.6	396.4	347.4	329.2
67.5°	443.5	402.4	340.2	294.2	279.8
70°	384.2	342.7	281.8	244.2	229.7
72.5°	325.8	285.7	229.7	195.7	187.4
75°	267.4	230.9	179.9	153.3	144.7
77.5°	207.6	178.6	136.0	115.7	108.2
80°	158.0	129.0	94.9	83.9	81.6
82.5°	109.3	83.9	63.4	59.3	58.4
85°	66.7	44.9	39.0	37.7	36.5
87.5°	28.2	19.4	18.3	18.3	16.9
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)