

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: P888470

Luminaire Tested: **DPT5-6FO44-127S40-F-XX-UDD**

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: P888470
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: DPT5-6FO44-127S40-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

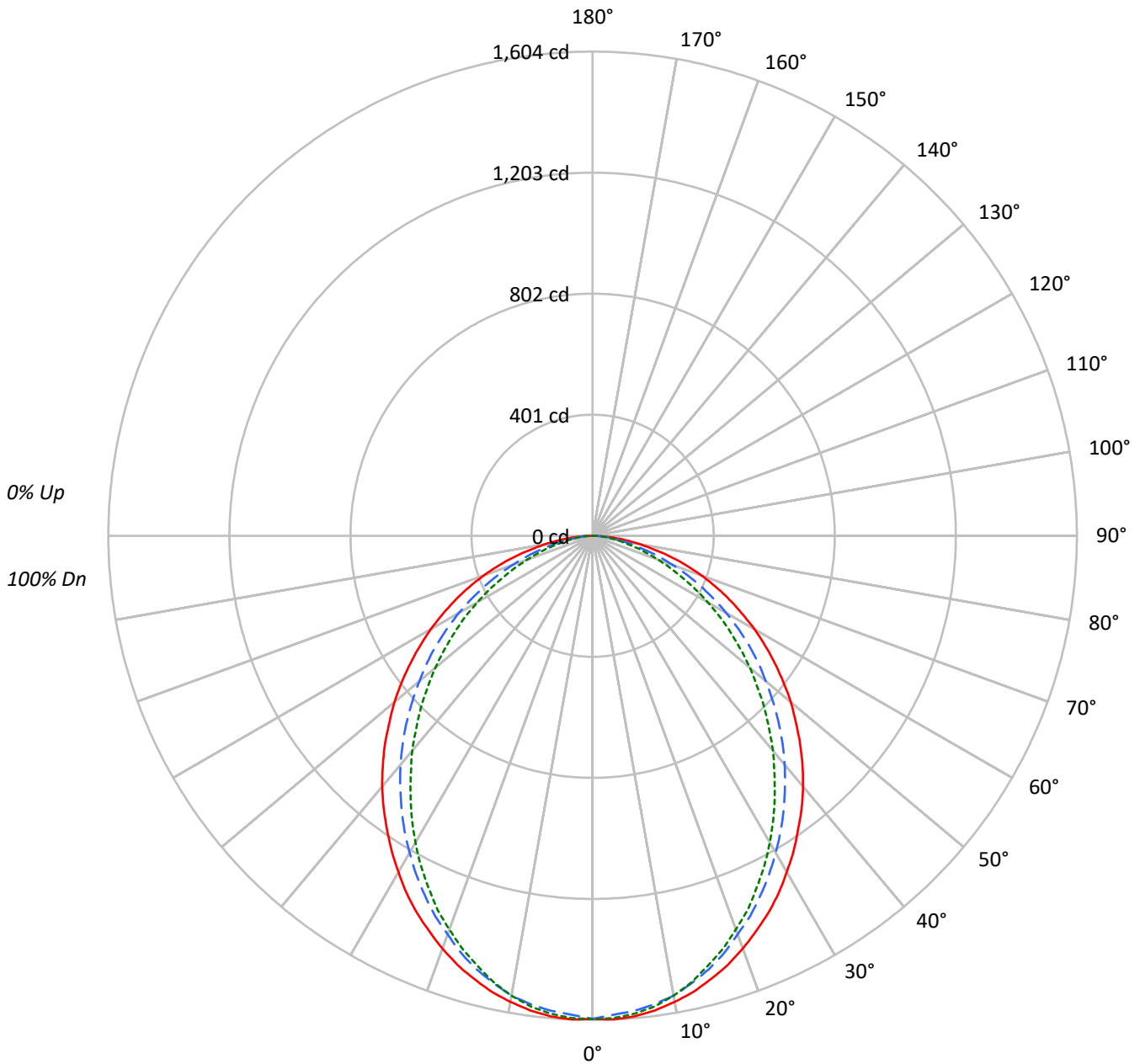
Lumens per Lamp: N/A
Luminaire Lumens: 3781.0 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')
CIE Type: Direct

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					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								
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°	12372	12372	12372
5°	12401	12260	12333
10°	12307	12145	12145
15°	12161	11897	11802
20°	11971	11555	11416
25°	11753	11217	10970
30°	11481	10822	10477
35°	11202	10415	9925
40°	10943	9990	9381
45°	10624	9514	8788
50°	10306	8999	8171
55°	9939	8507	7513
60°	9568	7904	6802
65°	9134	7211	5987
70°	8637	6336	5165
75°	7942	5344	4298
80°	6999	4203	3615
85°	5890	3442	3220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.6	4.0
10°-20°	420.9	11.1
20°-30°	610.3	16.1
30°-40°	695.3	18.4
40°-50°	677.7	17.9
50°-60°	570.4	15.1
60°-70°	399.7	10.6
70°-80°	204.9	5.4
80°-90°	51.1	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°	1181.8	31.3
0°-40°	1877.2	49.6
0°-60°	3125.3	82.7
0°-90°	3781.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3781.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1600	1600	1600	1600	1600	
5°	1598	1593	1580	1592	1589	152
15°	1520	1512	1486	1485	1475	428
25°	1378	1360	1315	1299	1286	634
35°	1187	1158	1104	1069	1052	743
45°	972	937	870	822	804	749
55°	737	699	631	577	557	659
65°	499	458	394	346	327	494
75°	266	230	179	152	144	281
85°	66	45	39	37	36	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1600.4	1600.4	1600.4	1600.4	1600.4
2.5°	1604.0	1600.4	1588.3	1600.4	1599.1
5°	1598.0	1593.2	1579.8	1591.7	1589.2
7.5°	1585.8	1580.9	1565.2	1574.9	1572.6
10°	1567.7	1564.1	1547.1	1550.9	1547.1
12.5°	1547.1	1542.1	1517.9	1520.4	1514.5
15°	1519.5	1512.1	1486.5	1485.4	1474.6
17.5°	1490.3	1479.6	1449.1	1443.2	1434.7
20°	1455.1	1443.2	1404.5	1398.4	1387.6
22.5°	1416.6	1404.5	1363.7	1350.2	1341.5
25°	1377.8	1359.6	1315.0	1299.3	1286.1
27.5°	1334.5	1312.5	1265.4	1245.0	1231.8
30°	1286.1	1263.2	1212.3	1184.7	1173.7
32.5°	1238.8	1211.2	1159.2	1127.8	1113.4
35°	1187.0	1158.1	1103.6	1068.6	1051.6
37.5°	1137.4	1102.2	1046.6	1005.8	988.5
40°	1084.3	1048.0	989.9	943.9	929.6
42.5°	1028.5	991.0	930.5	887.2	864.1
45°	971.7	937.0	870.2	822.0	803.8
47.5°	912.3	876.4	809.6	760.3	739.7
50°	856.9	817.0	748.2	697.5	679.4
52.5°	796.4	755.6	691.2	635.6	617.5
55°	737.4	698.6	631.2	576.7	557.4
57.5°	676.9	635.6	570.6	517.3	500.4
60°	618.8	576.7	511.2	458.1	439.9
62.5°	557.4	517.3	450.9	402.5	384.3
65°	499.3	458.1	394.2	345.5	327.3
67.5°	441.0	400.2	338.3	292.6	278.2
70°	382.1	340.8	280.3	242.8	228.5
72.5°	324.0	284.1	228.5	194.6	186.3
75°	265.9	229.6	178.9	152.5	143.9
77.5°	206.5	177.6	135.2	115.0	107.6
80°	157.2	128.2	94.4	83.4	81.2
82.5°	108.7	83.4	63.0	59.0	58.1
85°	66.4	44.6	38.8	37.4	36.3
87.5°	28.0	19.3	18.2	18.2	16.8
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)