

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: P888525

Luminaire Tested: **DPT5-6FO55-127S40-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: P888525
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: DPT5-6FO55-127S40-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

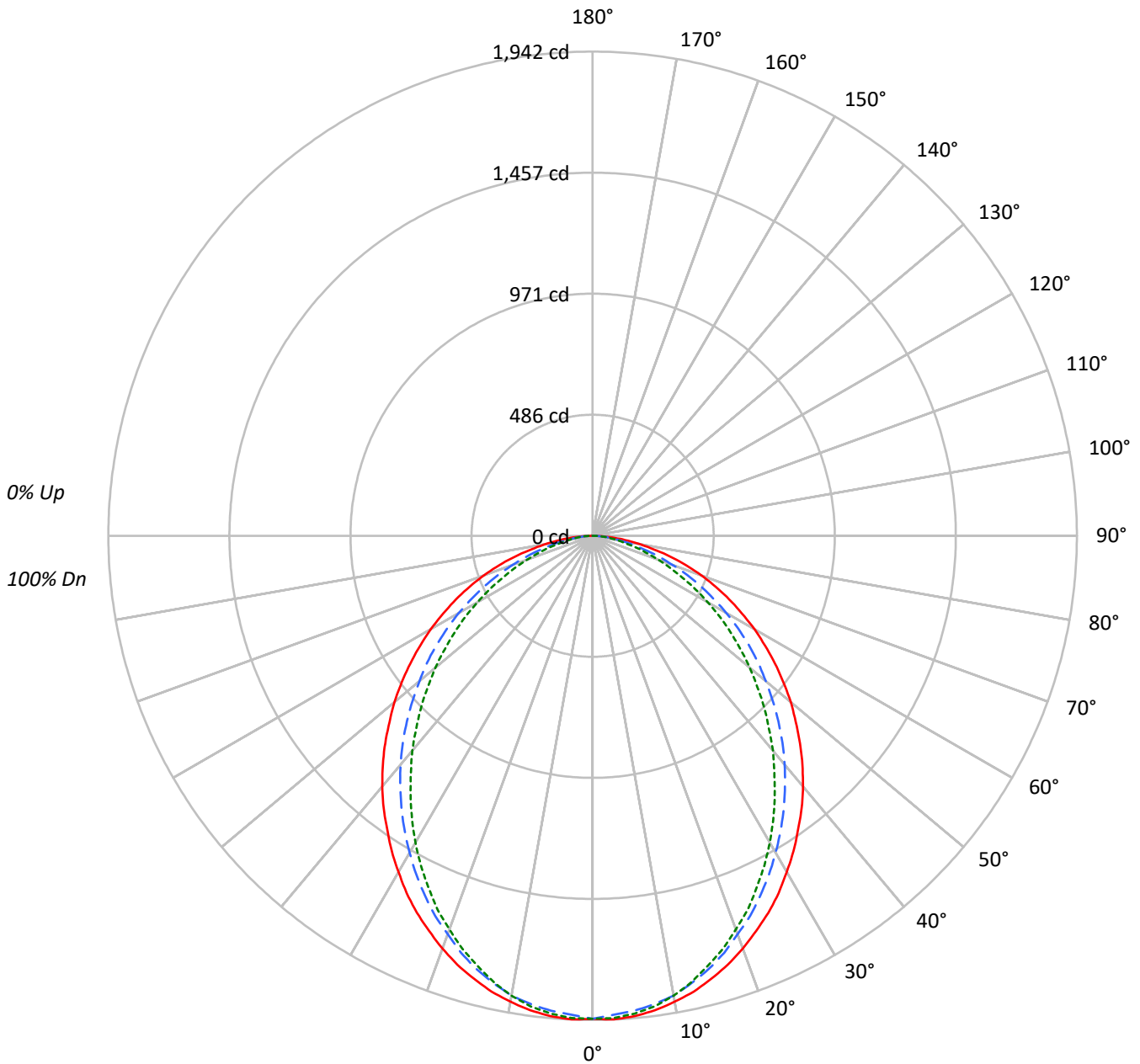
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4577.0 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 4.31' x H: 0')
CIE Type: Direct

Input Watts (W): 45
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

TEST NUMBER: P888525
CATALOG NUMBER: DPT5-6FO55-127S40-F-XX-UDD

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°	12373	12373	12373
5°	12401	12260	12333
10°	12306	12145	12145
15°	12161	11898	11802
20°	11971	11554	11416
25°	11752	11217	10970
30°	11480	10822	10478
35°	11202	10415	9924
40°	10943	9990	9381
45°	10624	9514	8788
50°	10306	8998	8171
55°	9939	8507	7512
60°	9568	7904	6801
65°	9133	7210	5989
70°	8636	6336	5165
75°	7943	5345	4298
80°	6999	4204	3615
85°	5884	3444	3224



TEST NUMBER: P888525

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.3	4.0
10°-20°	509.5	11.1
20°-30°	738.8	16.1
30°-40°	841.7	18.4
40°-50°	820.4	17.9
50°-60°	690.5	15.1
60°-70°	483.8	10.6
70°-80°	248.1	5.4
80°-90°	61.9	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°	1430.7	31.3
0°-40°	2272.4	49.6
0°-60°	3783.3	82.7
0°-90°	4577.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4577.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1937	1937	1937	1937	1937	
5°	1934	1929	1912	1927	1924	183
15°	1839	1830	1800	1798	1785	519
25°	1668	1646	1592	1573	1557	768
35°	1437	1402	1336	1294	1273	900
45°	1176	1134	1053	995	973	907
55°	893	846	764	698	675	798
65°	604	554	477	418	396	598
75°	322	278	217	185	174	340
85°	80	54	47	45	44	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1937.4	1937.4	1937.4	1937.4	1937.4
2.5°	1941.7	1937.4	1922.7	1937.4	1935.7
5°	1934.4	1928.7	1912.4	1926.8	1923.8
7.5°	1919.7	1913.7	1894.7	1906.4	1903.7
10°	1897.7	1893.4	1872.8	1877.4	1872.8
12.5°	1872.8	1866.8	1837.5	1840.5	1833.4
15°	1839.4	1830.4	1799.5	1798.1	1785.1
17.5°	1804.1	1791.1	1754.1	1747.1	1736.8
20°	1761.5	1747.1	1700.1	1692.8	1679.8
22.5°	1714.8	1700.1	1650.7	1634.5	1623.9
25°	1667.8	1645.9	1591.8	1572.8	1556.8
27.5°	1615.5	1588.9	1531.9	1507.2	1491.1
30°	1556.8	1529.1	1467.5	1434.2	1420.9
32.5°	1499.6	1466.2	1403.2	1365.2	1347.8
35°	1436.9	1401.9	1335.9	1293.6	1272.9
37.5°	1376.9	1334.3	1267.0	1217.6	1196.7
40°	1312.6	1268.6	1198.3	1142.7	1125.3
42.5°	1245.0	1199.6	1126.4	1074.0	1046.0
45°	1176.3	1134.2	1053.4	995.0	973.0
47.5°	1104.4	1061.0	980.1	920.4	895.4
50°	1037.3	989.0	905.7	844.4	822.4
52.5°	964.1	914.7	836.8	769.5	747.5
55°	892.7	845.7	764.0	698.1	674.7
57.5°	819.4	769.5	690.7	626.2	605.8
60°	749.1	698.1	618.8	554.5	532.5
62.5°	674.7	626.2	545.8	487.2	465.2
65°	604.4	554.5	477.1	418.2	396.3
67.5°	533.9	484.5	409.6	354.2	336.8
70°	462.5	412.5	339.3	293.9	276.6
72.5°	392.2	343.9	276.6	235.6	225.5
75°	321.9	277.9	216.6	184.6	174.2
77.5°	250.0	215.0	163.7	139.2	130.3
80°	190.3	155.2	114.3	101.0	98.3
82.5°	131.6	101.0	76.3	71.4	70.3
85°	80.3	54.0	47.0	45.3	44.0
87.5°	33.9	23.3	22.0	22.0	20.4
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)