

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: P888519

Luminaire Tested: **DPT5-6FO55-109V60-F-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: P888519
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: DPT5-6FO55-109V60-F-XX-UDD_4500K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

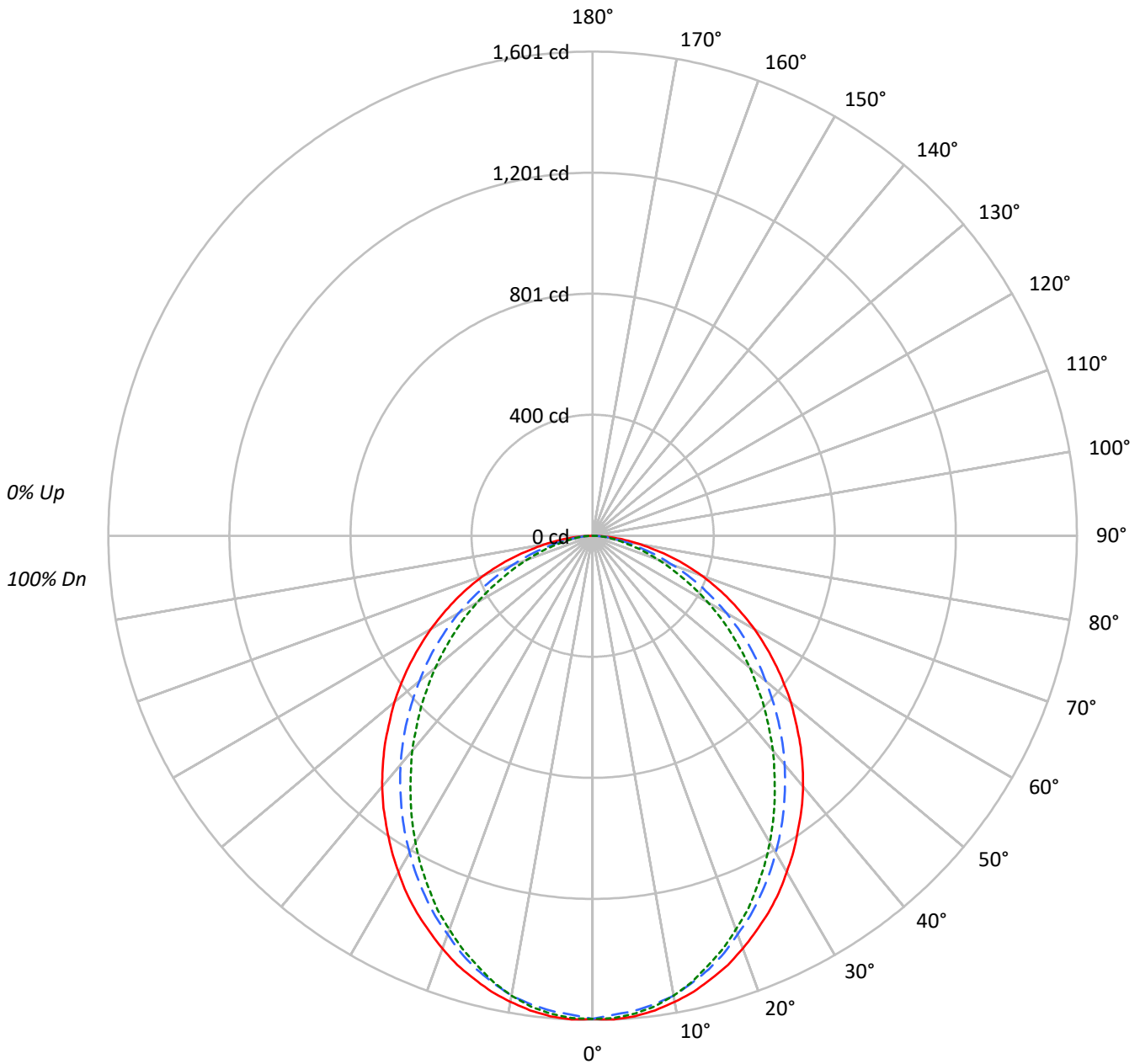
Lumens per Lamp: N/A
Luminaire Lumens: 3774.0 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 4.31' x H: 0')
CIE Type: Direct

Input Watts (W): 38.6
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°	10202	10202	10202
5°	10225	10109	10169
10°	10147	10014	10014
15°	10028	9810	9732
20°	9871	9528	9413
25°	9690	9249	9046
30°	9466	8924	8640
35°	9237	8588	8183
40°	9023	8238	7736
45°	8760	7845	7246
50°	8498	7420	6737
55°	8196	7015	6195
60°	7890	6518	5608
65°	7531	5945	4937
70°	7120	5223	4257
75°	6549	4407	3546
80°	5770	3464	2979
85°	4851	2836	2660



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.3	4.0
10°-20°	420.1	11.1
20°-30°	609.2	16.1
30°-40°	694.1	18.4
40°-50°	676.5	17.9
50°-60°	569.3	15.1
60°-70°	398.9	10.6
70°-80°	204.5	5.4
80°-90°	51.0	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°	1179.7	31.3
0°-40°	1873.7	49.6
0°-60°	3119.5	82.7
0°-90°	3774.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3774.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1598	1598	1598	1598	1598	
5°	1595	1590	1577	1589	1586	151
15°	1517	1509	1484	1483	1472	428
25°	1375	1357	1313	1297	1284	633
35°	1185	1156	1102	1067	1050	742
45°	970	935	869	820	802	748
55°	736	697	630	576	556	658
65°	498	457	393	345	327	493
75°	265	229	179	152	144	281
85°	66	44	39	37	36	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1597.5	1597.5	1597.5	1597.5	1597.5
2.5°	1601.0	1597.5	1585.4	1597.5	1596.1
5°	1595.0	1590.3	1576.9	1588.7	1586.3
7.5°	1582.9	1578.0	1562.3	1571.9	1569.7
10°	1564.8	1561.2	1544.2	1548.0	1544.2
12.5°	1544.2	1539.3	1515.1	1517.6	1511.7
15°	1516.7	1509.3	1483.8	1482.7	1471.9
17.5°	1487.6	1476.8	1446.4	1440.6	1432.1
20°	1452.4	1440.6	1401.9	1395.8	1385.1
22.5°	1413.9	1401.9	1361.1	1347.7	1339.0
25°	1375.2	1357.1	1312.6	1296.9	1283.7
27.5°	1332.0	1310.1	1263.1	1242.7	1229.5
30°	1283.7	1260.9	1210.1	1182.5	1171.6
32.5°	1236.5	1208.9	1157.0	1125.7	1111.4
35°	1184.8	1155.9	1101.5	1066.6	1049.6
37.5°	1135.3	1100.2	1044.7	1004.0	986.7
40°	1082.3	1046.0	988.1	942.2	927.9
42.5°	1026.6	989.2	928.8	885.6	862.5
45°	969.9	935.2	868.6	820.4	802.3
47.5°	910.6	874.8	808.1	758.9	738.3
50°	855.3	815.5	746.8	696.2	678.1
52.5°	794.9	754.2	690.0	634.5	616.3
55°	736.1	697.3	630.0	575.6	556.4
57.5°	675.6	634.5	569.6	516.3	499.5
60°	617.7	575.6	510.3	457.2	439.1
62.5°	556.4	516.3	450.1	401.7	383.6
65°	498.4	457.2	393.4	344.9	326.7
67.5°	440.2	399.5	337.7	292.1	277.7
70°	381.3	340.2	279.7	242.4	228.0
72.5°	323.4	283.5	228.0	194.3	186.0
75°	265.4	229.2	178.6	152.2	143.7
77.5°	206.1	177.2	134.9	114.8	107.4
80°	156.9	128.0	94.2	83.3	81.0
82.5°	108.5	83.3	62.9	58.9	58.0
85°	66.2	44.5	38.7	37.4	36.3
87.5°	28.0	19.2	18.1	18.1	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)