

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: P888514

Luminaire Tested: **DPT5-6FO55-109S40-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: P888514
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: DPT5-6FO55-109S40-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

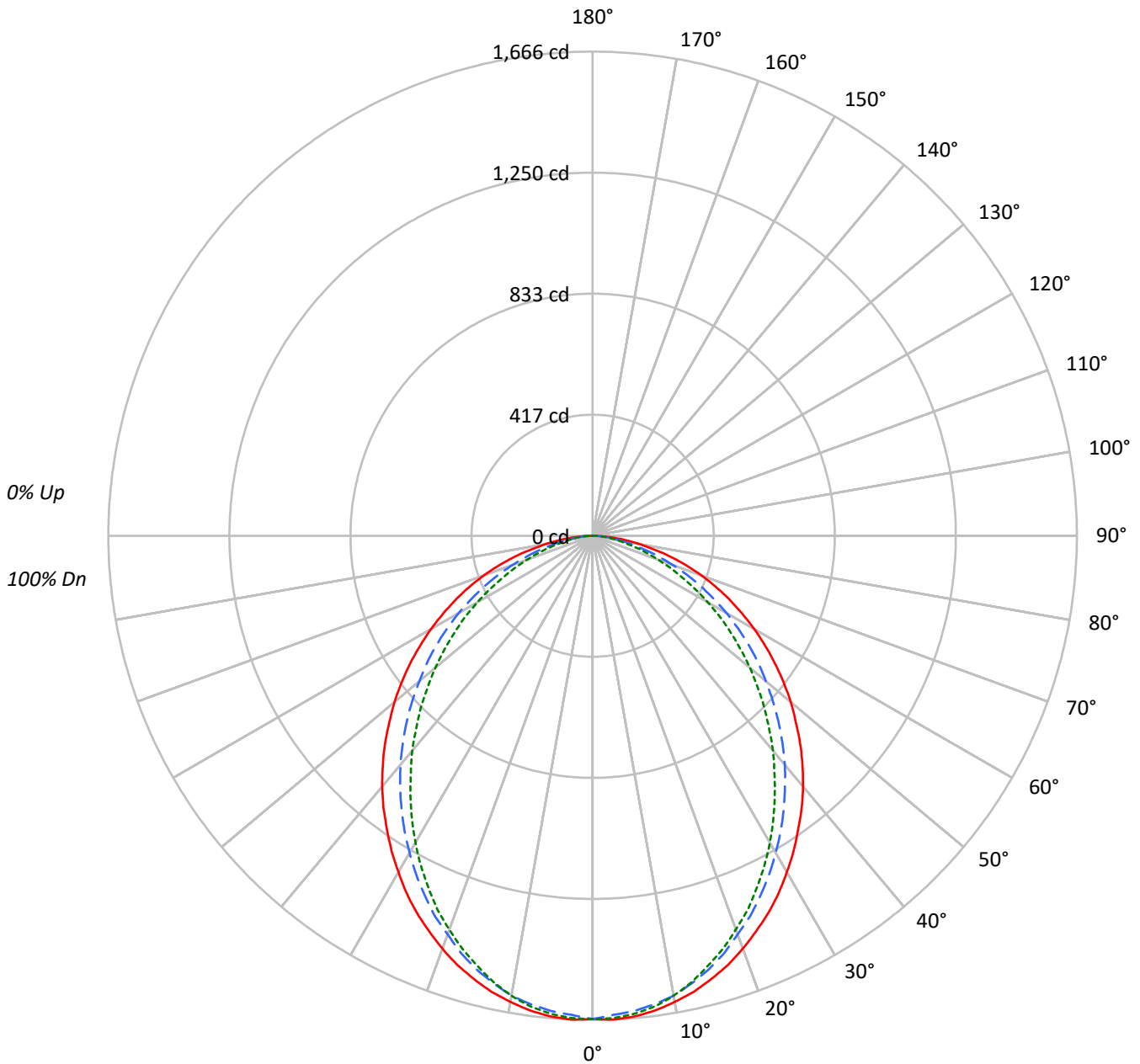
Lumens per Lamp: N/A
Luminaire Lumens: 3928.0 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 4.31' x H: 0')
CIE Type: Direct

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°	10618	10618	10618
5°	10642	10521	10584
10°	10561	10422	10422
15°	10437	10210	10129
20°	10274	9916	9797
25°	10086	9626	9415
30°	9853	9287	8992
35°	9614	8938	8517
40°	9390	8573	8051
45°	9117	8165	7541
50°	8845	7723	7012
55°	8530	7301	6448
60°	8212	6784	5837
65°	7838	6188	5139
70°	7411	5437	4433
75°	6818	4587	3689
80°	6006	3608	3100
85°	5049	2953	2762



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.5	4.0
10°-20°	437.3	11.1
20°-30°	634.0	16.1
30°-40°	722.4	18.4
40°-50°	704.1	17.9
50°-60°	592.6	15.1
60°-70°	415.2	10.6
70°-80°	212.9	5.4
80°-90°	53.1	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°	1227.8	31.3
0°-40°	1950.2	49.6
0°-60°	3246.8	82.7
0°-90°	3928.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3928.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1663	1663	1663	1663	1663	
5°	1660	1655	1641	1654	1651	157
15°	1579	1571	1544	1543	1532	445
25°	1431	1412	1366	1350	1336	659
35°	1233	1203	1146	1110	1092	772
45°	1010	973	904	854	835	779
55°	766	726	656	599	579	685
65°	519	476	410	359	340	514
75°	276	238	186	158	150	292
85°	69	46	40	39	38	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1662.6	1662.6	1662.6	1662.6	1662.6
2.5°	1666.4	1662.6	1650.1	1662.6	1661.2
5°	1660.1	1655.2	1641.2	1653.6	1651.0
7.5°	1647.5	1642.4	1626.1	1636.1	1633.8
10°	1628.6	1624.9	1607.2	1611.2	1607.2
12.5°	1607.2	1602.1	1576.9	1579.5	1573.4
15°	1578.6	1570.9	1544.3	1543.2	1532.0
17.5°	1548.3	1537.1	1505.4	1499.4	1490.5
20°	1511.7	1499.4	1459.1	1452.8	1441.6
22.5°	1471.6	1459.1	1416.7	1402.7	1393.6
25°	1431.3	1412.5	1366.1	1349.8	1336.1
27.5°	1386.4	1363.6	1314.6	1293.5	1279.7
30°	1336.1	1312.3	1259.4	1230.8	1219.4
32.5°	1286.9	1258.3	1204.2	1171.6	1156.7
35°	1233.1	1203.1	1146.5	1110.1	1092.4
37.5°	1181.6	1145.1	1087.3	1044.9	1027.0
40°	1126.4	1088.7	1028.4	980.6	965.7
42.5°	1068.4	1029.5	966.7	921.7	897.7
45°	1009.5	973.4	904.0	853.9	835.0
47.5°	947.8	910.5	841.1	789.9	768.4
50°	890.3	848.8	777.3	724.6	705.8
52.5°	827.4	785.0	718.1	660.4	641.5
55°	766.1	725.8	655.7	599.1	579.1
57.5°	703.2	660.4	592.8	537.4	519.9
60°	642.9	599.1	531.1	475.9	457.0
62.5°	579.1	537.4	468.4	418.1	399.2
65°	518.7	475.9	409.5	358.9	340.1
67.5°	458.2	415.8	351.5	304.0	289.1
70°	396.9	354.1	291.2	252.3	237.4
72.5°	336.6	295.1	237.4	202.2	193.6
75°	276.3	238.5	185.9	158.4	149.5
77.5°	214.5	184.5	140.5	119.5	111.8
80°	163.3	133.2	98.1	86.6	84.3
82.5°	113.0	86.6	65.5	61.3	60.3
85°	68.9	46.4	40.3	38.9	37.7
87.5°	29.1	20.0	18.9	18.9	17.5
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)