

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: P888469

Luminaire Tested: **DPT5-6FO44-127S35-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: P888469
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: DPT5-6FO44-127S35-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

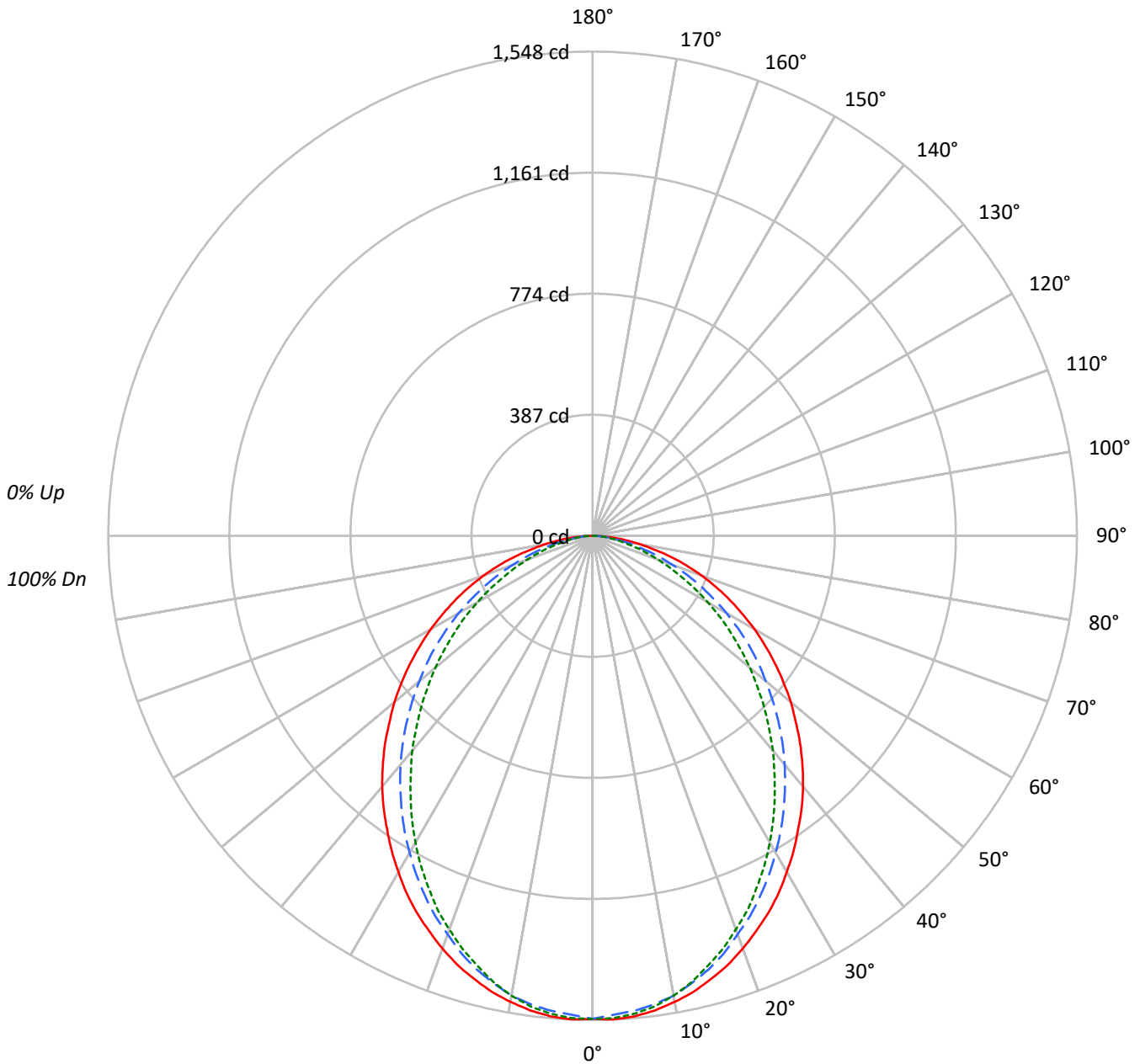
Lumens per Lamp: N/A
Luminaire Lumens: 3649.0 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')
CIE Type: Direct

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°	11940	11940	11940
5°	11968	11831	11902
10°	11877	11720	11720
15°	11736	11482	11391
20°	11553	11151	11018
25°	11342	10825	10587
30°	11080	10444	10112
35°	10811	10051	9577
40°	10560	9641	9053
45°	10253	9182	8481
50°	9946	8685	7885
55°	9592	8210	7250
60°	9234	7629	6563
65°	8815	6959	5779
70°	8334	6114	4984
75°	7665	5158	4149
80°	6754	4056	3486
85°	5677	3317	3113



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.4	4.0
10°-20°	406.2	11.1
20°-30°	589.0	16.1
30°-40°	671.1	18.4
40°-50°	654.1	17.9
50°-60°	550.5	15.1
60°-70°	385.7	10.6
70°-80°	197.8	5.4
80°-90°	49.3	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°	1140.6	31.3
0°-40°	1811.6	49.6
0°-60°	3016.2	82.7
0°-90°	3649.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3649.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1544	1544	1544	1544	1544	
5°	1542	1538	1525	1536	1534	146
15°	1466	1459	1435	1434	1423	413
25°	1330	1312	1269	1254	1241	612
35°	1146	1118	1065	1031	1015	717
45°	938	904	840	793	776	723
55°	712	674	609	556	538	636
65°	482	442	380	333	316	477
75°	257	222	173	147	139	271
85°	64	43	37	36	35	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1544.5	1544.5	1544.5	1544.5	1544.5
2.5°	1548.0	1544.5	1532.9	1544.5	1543.2
5°	1542.2	1537.6	1524.6	1536.1	1533.7
7.5°	1530.5	1525.7	1510.6	1519.9	1517.7
10°	1513.0	1509.5	1493.0	1496.7	1493.0
12.5°	1493.0	1488.3	1464.9	1467.3	1461.7
15°	1466.4	1459.3	1434.6	1433.5	1423.2
17.5°	1438.3	1427.9	1398.5	1392.9	1384.6
20°	1404.3	1392.9	1355.4	1349.6	1339.2
22.5°	1367.1	1355.4	1316.0	1303.1	1294.6
25°	1329.7	1312.2	1269.1	1253.9	1241.2
27.5°	1287.9	1266.7	1221.3	1201.6	1188.8
30°	1241.2	1219.1	1170.0	1143.4	1132.8
32.5°	1195.5	1168.9	1118.7	1088.4	1074.6
35°	1145.5	1117.6	1065.0	1031.3	1014.8
37.5°	1097.7	1063.7	1010.1	970.7	954.0
40°	1046.4	1011.4	955.3	911.0	897.1
42.5°	992.6	956.4	898.0	856.2	833.9
45°	937.8	904.3	839.8	793.3	775.7
47.5°	880.5	845.8	781.4	733.8	713.9
50°	827.0	788.5	722.1	673.2	655.6
52.5°	768.6	729.2	667.1	613.4	595.9
55°	711.7	674.3	609.1	556.5	537.9
57.5°	653.3	613.4	550.7	499.2	483.0
60°	597.2	556.5	493.4	442.1	424.5
62.5°	537.9	499.2	435.1	388.4	370.9
65°	481.9	442.1	380.4	333.4	315.9
67.5°	425.6	386.2	326.5	282.4	268.5
70°	368.7	328.9	270.5	234.3	220.5
72.5°	312.7	274.2	220.5	187.8	179.8
75°	256.6	221.6	172.7	147.1	138.9
77.5°	199.3	171.4	130.5	111.0	103.9
80°	151.7	123.8	91.1	80.5	78.3
82.5°	104.9	80.5	60.8	56.9	56.0
85°	64.0	43.1	37.4	36.1	35.1
87.5°	27.0	18.6	17.5	17.5	16.2
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)