

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: P888415

Luminaire Tested: **DPT5-6FO36-127S40-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: P888415
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: DPT5-6FO36-127S40-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

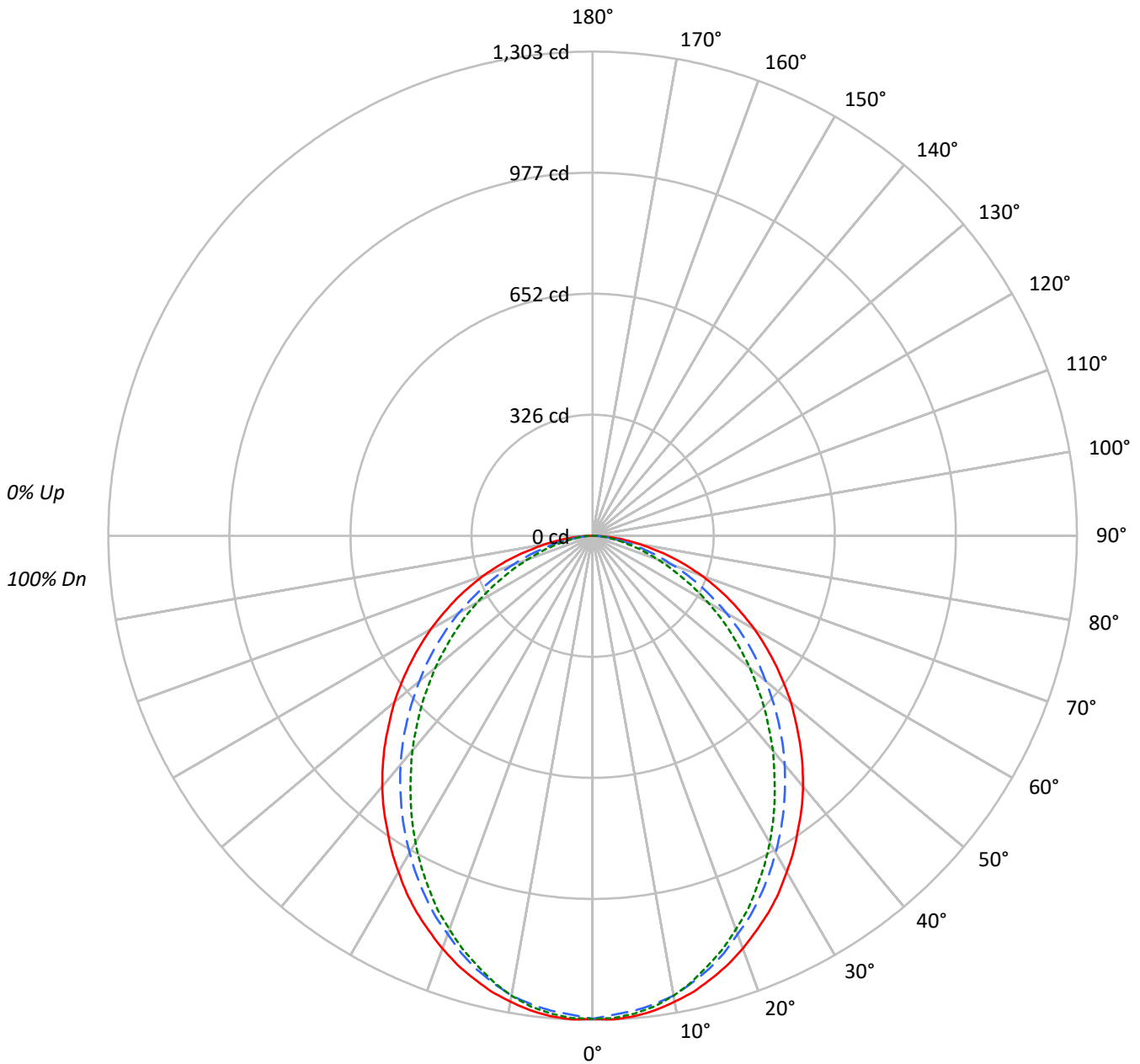
Lumens per Lamp: N/A
Luminaire Lumens: 3071.0 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 2.9' x H: 0')
CIE Type: Direct

Input Watts (W): 30
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°	12363	12363	12363
5°	12391	12250	12323
10°	12297	12135	12135
15°	12152	11888	11793
20°	11962	11545	11407
25°	11744	11208	10962
30°	11472	10814	10469
35°	11193	10406	9916
40°	10934	9982	9373
45°	10616	9506	8781
50°	10298	8991	8164
55°	9932	8499	7506
60°	9560	7898	6796
65°	9128	7203	5984
70°	8629	6329	5161
75°	7937	5339	4296
80°	6994	4201	3609
85°	5882	3437	3219



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.3	4.0
10°-20°	341.9	11.1
20°-30°	495.7	16.1
30°-40°	564.8	18.4
40°-50°	550.5	17.9
50°-60°	463.3	15.1
60°-70°	324.6	10.6
70°-80°	166.4	5.4
80°-90°	41.5	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°	959.9	31.3
0°-40°	1524.7	49.6
0°-60°	2538.4	82.7
0°-90°	3071.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3071.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1300	1300	1300	1300	1300	
5°	1298	1294	1283	1293	1291	123
15°	1234	1228	1207	1206	1198	348
25°	1119	1104	1068	1055	1045	515
35°	964	941	896	868	854	604
45°	789	761	707	668	653	609
55°	599	568	513	468	453	536
65°	406	372	320	281	266	402
75°	216	186	145	124	117	228
85°	54	36	32	30	30	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1299.9	1299.9	1299.9	1299.9	1299.9
2.5°	1302.8	1299.9	1290.1	1299.9	1298.8
5°	1297.9	1294.1	1283.1	1292.8	1290.8
7.5°	1288.1	1284.0	1271.3	1279.1	1277.3
10°	1273.3	1270.4	1256.6	1259.6	1256.6
12.5°	1256.6	1252.5	1232.9	1234.9	1230.1
15°	1234.2	1228.1	1207.4	1206.5	1197.7
17.5°	1210.5	1201.7	1177.0	1172.2	1165.3
20°	1181.9	1172.2	1140.7	1135.8	1127.1
22.5°	1150.6	1140.7	1107.6	1096.7	1089.6
25°	1119.1	1104.3	1068.1	1055.3	1044.6
27.5°	1083.9	1066.1	1027.8	1011.2	1000.5
30°	1044.6	1026.0	984.7	962.3	953.3
32.5°	1006.2	983.8	941.5	916.0	904.4
35°	964.1	940.6	896.3	867.9	854.1
37.5°	923.8	895.2	850.1	816.9	802.9
40°	880.7	851.2	804.0	766.7	755.0
42.5°	835.3	804.9	755.8	720.6	701.8
45°	789.3	761.0	706.8	667.6	652.9
47.5°	741.0	711.9	657.6	617.5	600.8
50°	696.0	663.6	607.7	566.5	551.8
52.5°	646.9	613.7	561.4	516.3	501.5
55°	599.0	567.5	512.6	468.4	452.7
57.5°	549.8	516.3	463.5	420.1	406.5
60°	502.6	468.4	415.2	372.0	357.3
62.5°	452.7	420.1	366.2	326.9	312.1
65°	405.6	372.0	320.1	280.6	265.9
67.5°	358.2	325.1	274.8	237.7	226.0
70°	310.3	276.8	227.6	197.2	185.6
72.5°	263.1	230.7	185.6	158.1	151.3
75°	216.0	186.5	145.3	123.8	116.9
77.5°	167.7	144.2	109.8	93.4	87.4
80°	127.7	104.2	76.7	67.7	65.9
82.5°	88.3	67.7	51.2	47.9	47.2
85°	53.9	36.2	31.5	30.4	29.5
87.5°	22.8	15.7	14.8	14.8	13.7
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)