

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: P888129

Luminaire Tested: **DPT5-6FO36-109S40-A-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: P888129
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: DPT5-6FO36-109S40-A-XX-UDD
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

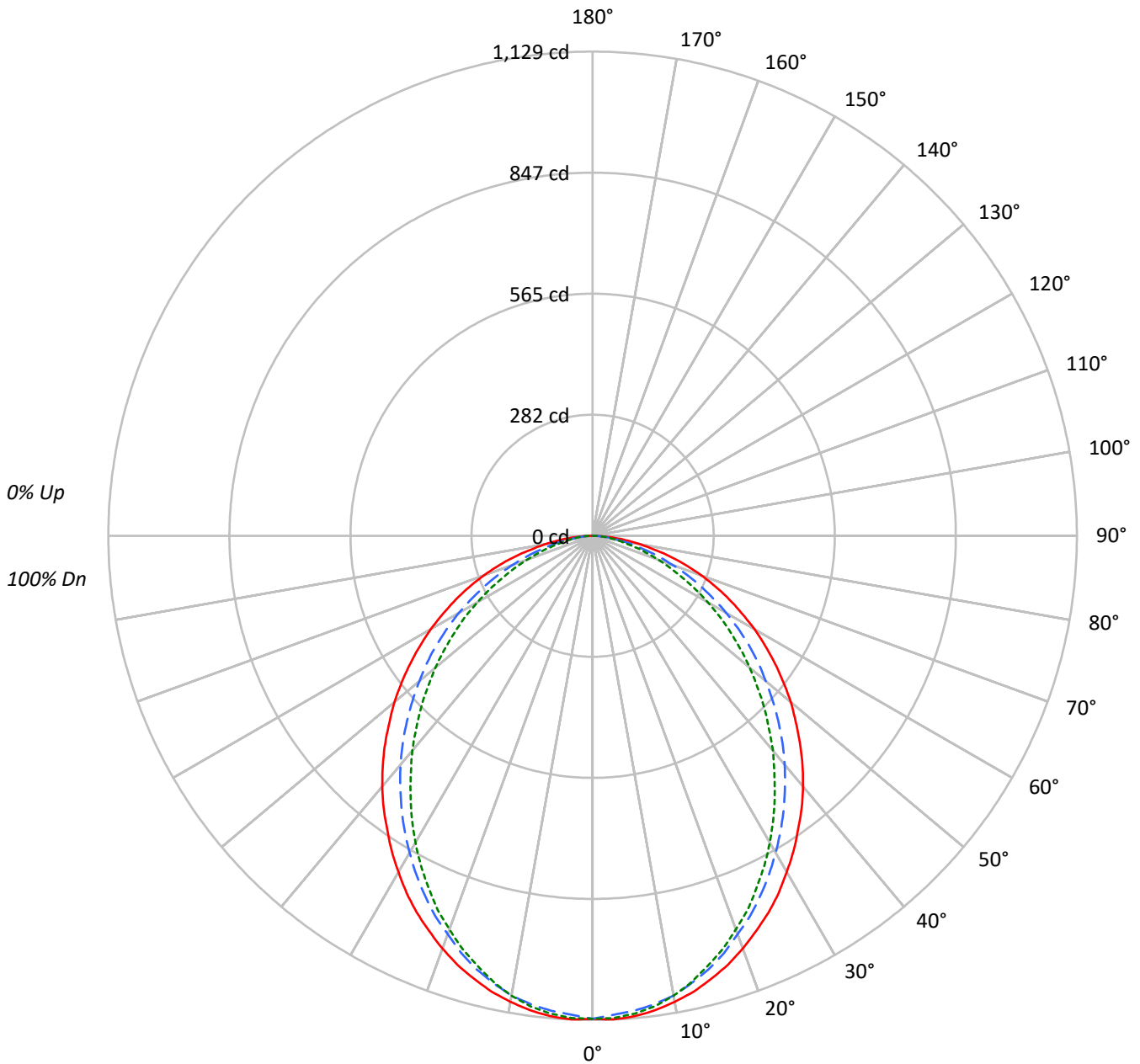
Lumens per Lamp: N/A
Luminaire Lumens: 2661.0 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2.9' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 25.7
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°	10712	10712	10712
5°	10736	10614	10678
10°	10655	10515	10515
15°	10529	10301	10218
20°	10365	10004	9884
25°	10176	9712	9498
30°	9940	9370	9072
35°	9699	9018	8593
40°	9474	8650	8122
45°	9198	8237	7609
50°	8923	7791	7074
55°	8606	7365	6505
60°	8284	6844	5889
65°	7908	6243	5185
70°	7477	5484	4471
75°	6875	4626	3722
80°	6057	3637	3127
85°	5096	2979	2794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.0	4.0
10°-20°	296.2	11.1
20°-30°	429.5	16.1
30°-40°	489.4	18.4
40°-50°	477.0	17.9
50°-60°	401.4	15.1
60°-70°	281.3	10.6
70°-80°	144.2	5.4
80°-90°	36.0	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°	831.8	31.3
0°-40°	1321.1	49.6
0°-60°	2199.5	82.7
0°-90°	2661.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2661.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1126	1126	1126	1126	1126	
5°	1125	1121	1112	1120	1118	107
15°	1069	1064	1046	1045	1038	302
25°	970	957	926	914	905	446
35°	835	815	777	752	740	523
45°	684	659	612	578	566	527
55°	519	492	444	406	392	464
65°	351	322	277	243	230	348
75°	187	162	126	107	101	198
85°	47	31	27	26	26	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1126.3	1126.3	1126.3	1126.3	1126.3
2.5°	1128.9	1126.3	1117.8	1126.3	1125.4
5°	1124.6	1121.3	1111.8	1120.2	1118.5
7.5°	1116.1	1112.6	1101.6	1108.4	1106.8
10°	1103.3	1100.8	1088.8	1091.5	1088.8
12.5°	1088.8	1085.3	1068.3	1070.0	1065.9
15°	1069.4	1064.2	1046.2	1045.4	1037.8
17.5°	1048.9	1041.3	1019.8	1015.7	1009.7
20°	1024.1	1015.7	988.4	984.2	976.6
22.5°	997.0	988.4	959.7	950.2	944.1
25°	969.7	956.9	925.5	914.4	905.1
27.5°	939.2	923.7	890.6	876.2	866.9
30°	905.1	889.0	853.2	833.8	826.1
32.5°	871.8	852.4	815.8	793.7	783.6
35°	835.4	815.0	776.7	752.1	740.1
37.5°	800.5	775.7	736.6	707.9	695.7
40°	763.1	737.5	696.7	664.3	654.2
42.5°	723.8	697.5	654.9	624.4	608.1
45°	683.9	659.4	612.4	578.5	565.7
47.5°	642.1	616.8	569.8	535.1	520.6
50°	603.1	575.0	526.6	490.9	478.1
52.5°	560.5	531.8	486.5	447.4	434.6
55°	519.0	491.7	444.2	405.9	392.3
57.5°	476.4	447.4	401.6	364.0	352.2
60°	435.5	405.9	359.8	322.4	309.6
62.5°	392.3	364.0	317.3	283.2	270.5
65°	351.4	322.4	277.4	243.2	230.4
67.5°	310.4	281.7	238.1	205.9	195.8
70°	268.9	239.8	197.2	170.9	160.8
72.5°	228.0	199.9	160.8	137.0	131.1
75°	187.1	161.6	125.9	107.3	101.3
77.5°	145.3	125.0	95.2	80.9	75.7
80°	110.6	90.3	66.4	58.7	57.1
82.5°	76.5	58.7	44.3	41.5	40.9
85°	46.7	31.4	27.3	26.4	25.6
87.5°	19.7	13.6	12.8	12.8	11.8
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)