

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: P888502

Luminaire Tested: **DPT5-6FO44-85S35-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: P888502
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: DPT5-6FO44-85S35-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

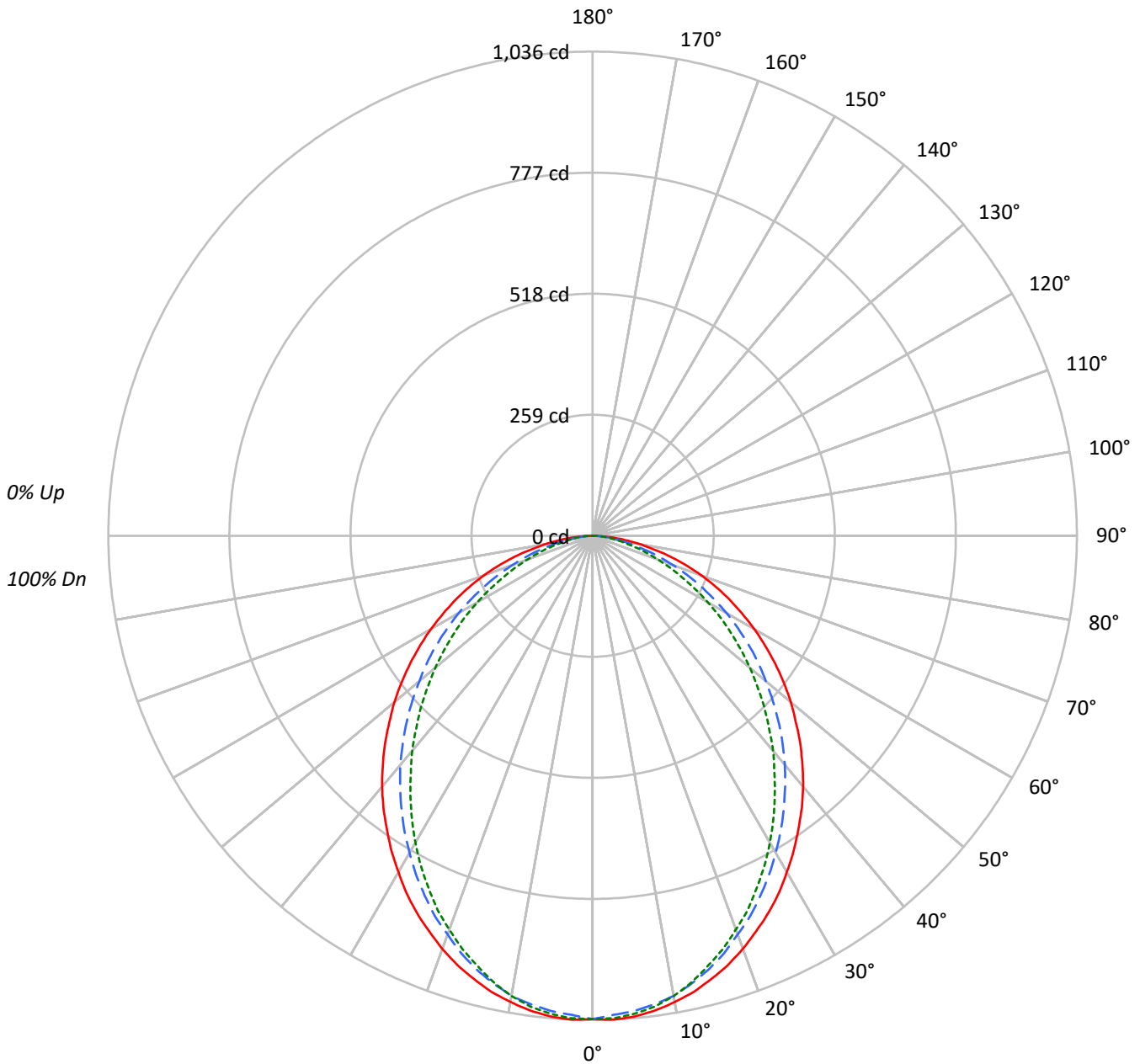
Lumens per Lamp: N/A
Luminaire Lumens: 2443.0 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')
CIE Type: Direct

Input Watts (W): 24.8
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°	7994	7994	7994
5°	8013	7921	7968
10°	7951	7847	7847
15°	7858	7687	7626
20°	7735	7466	7376
25°	7593	7248	7088
30°	7418	6992	6770
35°	7238	6729	6412
40°	7070	6455	6061
45°	6865	6147	5679
50°	6659	5814	5280
55°	6422	5496	4854
60°	6182	5107	4394
65°	5901	4659	3869
70°	5581	4093	3336
75°	5132	3453	2778
80°	4523	2716	2333
85°	3805	2226	2084



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	4.0
10°-20°	272.0	11.1
20°-30°	394.3	16.1
30°-40°	449.3	18.4
40°-50°	437.9	17.9
50°-60°	368.5	15.1
60°-70°	258.2	10.6
70°-80°	132.4	5.4
80°-90°	33.0	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°	763.6	31.3
0°-40°	1212.9	49.6
0°-60°	2019.3	82.7
0°-90°	2443.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2443.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1034	1034	1034	1034	1034	
5°	1032	1029	1021	1028	1027	98
15°	982	977	960	960	953	277
25°	890	878	850	840	831	410
35°	767	748	713	690	679	480
45°	628	605	562	531	519	484
55°	476	451	408	373	360	426
65°	323	296	255	223	212	319
75°	172	148	116	98	93	182
85°	43	29	25	24	24	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1034.1	1034.1	1034.1	1034.1	1034.1
2.5°	1036.4	1034.1	1026.2	1034.1	1033.2
5°	1032.5	1029.4	1020.7	1028.4	1026.8
7.5°	1024.7	1021.5	1011.3	1017.6	1016.1
10°	1012.9	1010.6	999.6	1002.1	999.6
12.5°	999.6	996.4	980.8	982.4	978.6
15°	981.8	977.0	960.5	959.8	952.8
17.5°	962.9	956.0	936.3	932.5	927.0
20°	940.2	932.5	907.5	903.5	896.6
22.5°	915.3	907.5	881.1	872.4	866.7
25°	890.2	878.5	849.7	839.5	831.0
27.5°	862.3	848.1	817.6	804.5	795.9
30°	831.0	816.2	783.3	765.5	758.4
32.5°	800.4	782.6	749.0	728.7	719.4
35°	766.9	748.2	713.0	690.4	679.4
37.5°	734.9	712.2	676.2	649.9	638.7
40°	700.6	677.1	639.6	609.9	600.6
42.5°	664.5	640.3	601.2	573.2	558.3
45°	627.9	605.4	562.2	531.1	519.4
47.5°	589.5	566.3	523.1	491.2	477.9
50°	553.7	527.9	483.4	450.7	439.0
52.5°	514.6	488.2	446.6	410.7	399.0
55°	476.5	451.4	407.8	372.6	360.1
57.5°	437.4	410.7	368.7	334.2	323.3
60°	399.8	372.6	330.3	296.0	284.2
62.5°	360.1	334.2	291.3	260.0	248.3
65°	322.6	296.0	254.7	223.2	211.5
67.5°	285.0	258.6	218.6	189.1	179.8
70°	246.9	220.2	181.1	156.9	147.6
72.5°	209.3	183.5	147.6	125.7	120.4
75°	171.8	148.3	115.6	98.5	93.0
77.5°	133.4	114.7	87.4	74.3	69.5
80°	101.6	82.9	61.0	53.9	52.4
82.5°	70.3	53.9	40.7	38.1	37.5
85°	42.9	28.8	25.1	24.2	23.5
87.5°	18.1	12.5	11.7	11.7	10.9
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)