

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: P888225

Luminaire Tested: **DPT5-6FO44-85S27-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: P888225
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: DPT5-6FO44-85S27-A-XX-UDD
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

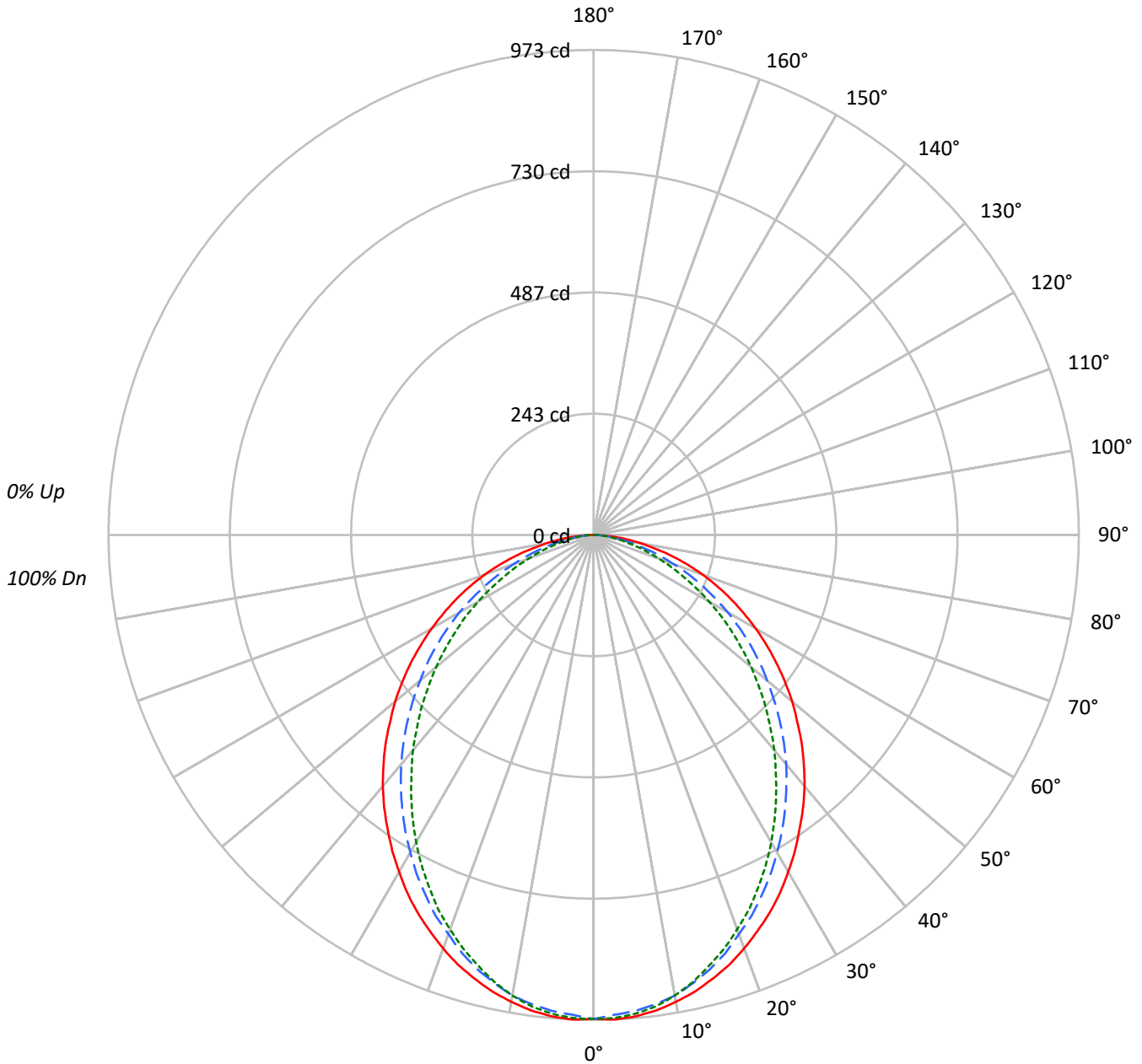
Lumens per Lamp: N/A
Luminaire Lumens: 2294.0 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 3.56' x L: 0.39' x H: 0')
CIE Type: Direct

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°	7507	7507	7507
5°	7524	7438	7483
10°	7466	7368	7368
15°	7378	7218	7161
20°	7264	7010	6926
25°	7130	6805	6656
30°	6966	6566	6357
35°	6797	6319	6021
40°	6639	6061	5692
45°	6446	5772	5332
50°	6253	5459	4958
55°	6030	5161	4558
60°	5806	4796	4127
65°	5541	4374	3633
70°	5239	3843	3133
75°	4818	3244	2608
80°	4247	2551	2190
85°	3575	2084	1951



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	4.0
10°-20°	255.4	11.1
20°-30°	370.3	16.1
30°-40°	421.9	18.4
40°-50°	411.2	17.9
50°-60°	346.1	15.1
60°-70°	242.5	10.6
70°-80°	124.3	5.4
80°-90°	31.0	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°	717.0	31.3
0°-40°	1138.9	49.6
0°-60°	1896.2	82.7
0°-90°	2294.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2294.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	971	971	971	971	971	
5°	970	967	958	966	964	92
15°	922	917	902	901	895	260
25°	836	825	798	788	780	385
35°	720	703	670	648	638	451
45°	590	568	528	499	488	455
55°	447	424	383	350	338	400
65°	303	278	239	210	199	300
75°	161	139	109	92	87	171
85°	40	27	24	23	22	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	971.0	971.0	971.0	971.0	971.0
2.5°	973.2	971.0	963.7	971.0	970.2
5°	969.5	966.7	958.5	965.7	964.2
7.5°	962.2	959.2	949.6	955.5	954.1
10°	951.1	949.0	938.6	940.9	938.6
12.5°	938.6	935.6	920.9	922.4	918.9
15°	921.9	917.4	901.9	901.2	894.7
17.5°	904.2	897.7	879.2	875.6	870.5
20°	882.9	875.6	852.1	848.4	841.9
22.5°	859.5	852.1	827.4	819.2	813.9
25°	835.9	824.9	797.8	788.3	780.3
27.5°	809.7	796.3	767.8	755.4	747.4
30°	780.3	766.4	735.5	718.8	712.1
32.5°	751.6	734.9	703.3	684.2	675.5
35°	720.2	702.6	669.6	648.3	638.0
37.5°	690.1	668.7	635.0	610.2	599.8
40°	657.9	635.8	600.6	572.7	564.0
42.5°	624.0	601.3	564.5	538.3	524.3
45°	589.6	568.5	527.9	498.7	487.7
47.5°	553.5	531.8	491.2	461.3	448.8
50°	519.9	495.7	453.9	423.2	412.2
52.5°	483.2	458.4	419.4	385.7	374.6
55°	447.4	423.9	382.9	349.9	338.2
57.5°	410.7	385.7	346.2	313.8	303.6
60°	375.5	349.9	310.2	277.9	266.9
62.5°	338.2	313.8	273.6	244.2	233.2
65°	302.9	277.9	239.1	209.6	198.6
67.5°	267.6	242.8	205.3	177.5	168.8
70°	231.8	206.8	170.0	147.3	138.6
72.5°	196.6	172.4	138.6	118.1	113.0
75°	161.3	139.3	108.6	92.5	87.3
77.5°	125.3	107.7	82.0	69.8	65.3
80°	95.4	77.8	57.3	50.6	49.2
82.5°	66.0	50.6	38.2	35.8	35.2
85°	40.3	27.1	23.5	22.7	22.0
87.5°	17.0	11.7	11.0	11.0	10.2
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)