

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: P888214

Luminaire Tested: **DPT5-6FO44-61S27-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: P888214
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: DPT5-6FO44-61S27-A-XX-UDD
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

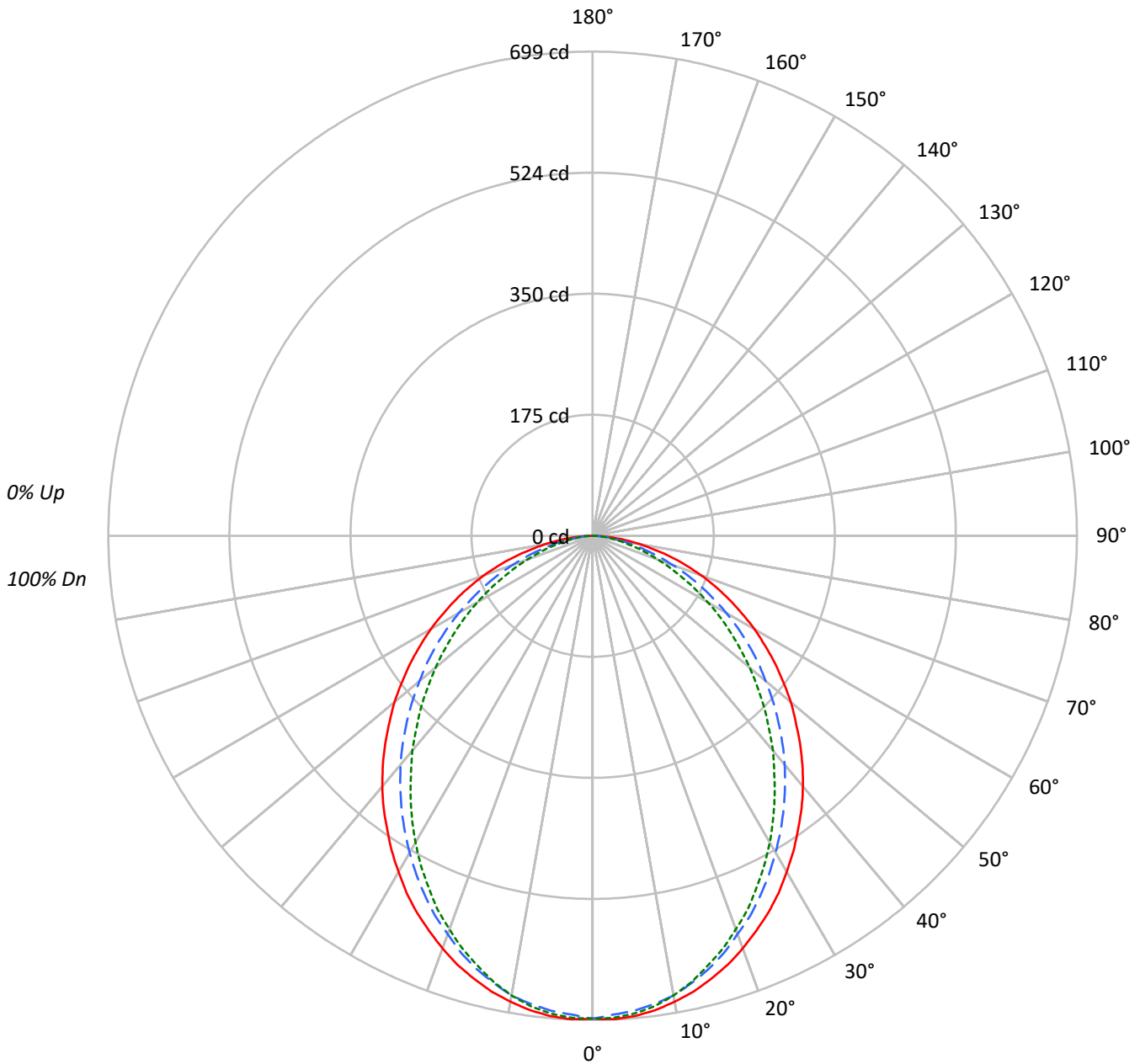
Lumens per Lamp: N/A
Luminaire Lumens: 1647.0 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 3.56' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 17.8
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°	5389	5389	5389
5°	5402	5341	5372
10°	5361	5290	5290
15°	5298	5182	5141
20°	5215	5033	4973
25°	5120	4886	4778
30°	5001	4714	4564
35°	4879	4537	4323
40°	4766	4352	4086
45°	4628	4144	3828
50°	4490	3920	3559
55°	4329	3705	3273
60°	4168	3443	2962
65°	3979	3141	2609
70°	3761	2760	2249
75°	3459	2327	1873
80°	3050	1830	1576
85°	2563	1499	1401



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	4.0
10°-20°	183.3	11.1
20°-30°	265.9	16.1
30°-40°	302.9	18.4
40°-50°	295.2	17.9
50°-60°	248.5	15.1
60°-70°	174.1	10.6
70°-80°	89.3	5.4
80°-90°	22.3	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°	514.8	31.3
0°-40°	817.7	49.6
0°-60°	1361.4	82.7
0°-90°	1647.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1647.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	697	697	697	697	697	
5°	696	694	688	693	692	66
15°	662	659	648	647	642	187
25°	600	592	573	566	560	276
35°	517	504	481	466	458	324
45°	423	408	379	358	350	326
55°	321	304	275	251	243	287
65°	218	200	172	150	143	215
75°	116	100	78	66	63	122
85°	29	19	17	16	16	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	697.1	697.1	697.1	697.1	697.1
2.5°	698.7	697.1	691.9	697.1	696.6
5°	696.1	694.0	688.2	693.3	692.3
7.5°	690.8	688.6	681.8	686.0	685.0
10°	682.9	681.3	673.9	675.6	673.9
12.5°	673.9	671.7	661.2	662.3	659.7
15°	661.9	658.7	647.5	647.0	642.4
17.5°	649.2	644.5	631.2	628.7	625.0
20°	633.9	628.7	611.8	609.1	604.5
22.5°	617.1	611.8	594.0	588.1	584.3
25°	600.2	592.2	572.8	566.0	560.2
27.5°	581.3	571.7	551.2	542.3	536.6
30°	560.2	550.3	528.1	516.1	511.3
32.5°	539.6	527.6	504.9	491.3	485.0
35°	517.0	504.4	480.7	465.5	458.1
37.5°	495.5	480.1	455.9	438.1	430.6
40°	472.3	456.5	431.2	411.2	404.9
42.5°	448.0	431.7	405.3	386.5	376.4
45°	423.3	408.1	379.0	358.0	350.1
47.5°	397.4	381.8	352.7	331.2	322.2
50°	373.3	355.9	325.9	303.8	295.9
52.5°	346.9	329.1	301.1	276.9	269.0
55°	321.2	304.3	274.9	251.2	242.8
57.5°	294.9	276.9	248.6	225.3	218.0
60°	269.6	251.2	222.7	199.5	191.6
62.5°	242.8	225.3	196.4	175.3	167.4
65°	217.5	199.5	171.7	150.5	142.6
67.5°	192.1	174.3	147.4	127.5	121.2
70°	166.4	148.5	122.1	105.8	99.5
72.5°	141.1	123.7	99.5	84.8	81.2
75°	115.8	100.0	77.9	66.4	62.7
77.5°	90.0	77.4	58.9	50.1	46.9
80°	68.5	55.9	41.1	36.3	35.4
82.5°	47.4	36.3	27.4	25.7	25.3
85°	28.9	19.4	16.9	16.3	15.8
87.5°	12.2	8.4	7.9	7.9	7.3
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)