

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: P888125

Luminaire Tested: **DPT5-4F029-85V60-A-XX-UDD_6500K**

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: P888125
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: DPT5-4F029-85V60-A-XX-UDD_6500K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

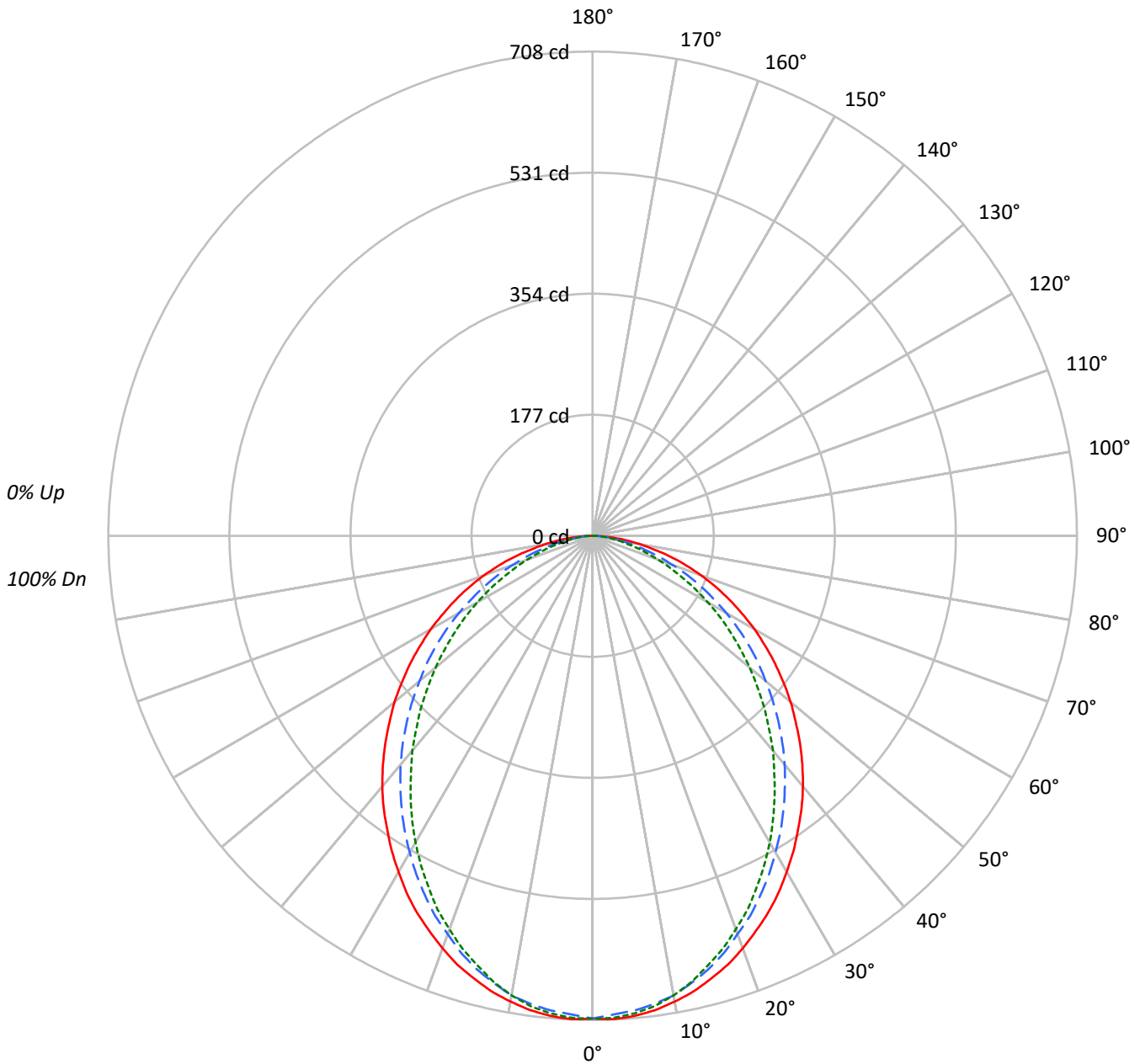
Lumens per Lamp: N/A
Luminaire Lumens: 1668.0 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 16.1
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°	8408	8408	8408
5°	8427	8332	8382
10°	8364	8254	8254
15°	8265	8086	8020
20°	8135	7853	7759
25°	7987	7623	7456
30°	7803	7355	7121
35°	7613	7078	6745
40°	7436	6789	6376
45°	7220	6466	5972
50°	7004	6116	5553
55°	6754	5781	5106
60°	6503	5371	4623
65°	6208	4901	4069
70°	5867	4304	3510
75°	5398	3631	2922
80°	4753	2853	2455
85°	4004	2337	2186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	4.0
10°-20°	185.7	11.1
20°-30°	269.2	16.1
30°-40°	306.7	18.4
40°-50°	299.0	17.9
50°-60°	251.6	15.1
60°-70°	176.3	10.6
70°-80°	90.4	5.4
80°-90°	22.5	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°	521.4	31.3
0°-40°	828.1	49.6
0°-60°	1378.7	82.7
0°-90°	1668.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1668.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	706	706	706	706	706	
5°	705	703	697	702	701	67
15°	670	667	656	655	650	189
25°	608	600	580	573	567	280
35°	524	511	487	471	464	328
45°	429	413	384	363	355	331
55°	325	308	278	254	246	291
65°	220	202	174	152	144	218
75°	117	101	79	67	64	124
85°	29	20	17	16	16	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	706.0	706.0	706.0	706.0	706.0
2.5°	707.6	706.0	700.7	706.0	705.4
5°	704.9	702.9	696.9	702.2	701.1
7.5°	699.6	697.4	690.5	694.8	693.8
10°	691.6	690.0	682.5	684.2	682.5
12.5°	682.5	680.3	669.6	670.7	668.1
15°	670.3	667.1	655.8	655.3	650.5
17.5°	657.5	652.7	639.3	636.7	632.9
20°	641.9	636.7	619.6	616.9	612.2
22.5°	624.9	619.6	601.6	595.6	591.8
25°	607.8	599.8	580.1	573.2	567.4
27.5°	588.7	579.0	558.3	549.3	543.4
30°	567.4	557.3	534.8	522.6	517.8
32.5°	546.5	534.3	511.4	497.5	491.2
35°	523.6	510.9	486.8	471.4	463.9
37.5°	501.8	486.2	461.7	443.7	436.1
40°	478.3	462.3	436.7	416.4	410.1
42.5°	453.7	437.2	410.5	391.4	381.2
45°	428.7	413.4	383.9	362.6	354.6
47.5°	402.5	386.6	357.2	335.4	326.3
50°	378.0	360.4	330.1	307.7	299.7
52.5°	351.3	333.3	304.9	280.4	272.4
55°	325.3	308.2	278.4	254.4	245.9
57.5°	298.6	280.4	251.7	228.2	220.8
60°	273.0	254.4	225.5	202.1	194.1
62.5°	245.9	228.2	198.9	177.5	169.5
65°	220.3	202.1	173.9	152.4	144.4
67.5°	194.6	176.6	149.3	129.1	122.7
70°	168.5	150.3	123.6	107.1	100.8
72.5°	142.9	125.3	100.8	85.9	82.2
75°	117.3	101.3	78.9	67.3	63.5
77.5°	91.1	78.3	59.6	50.7	47.5
80°	69.3	56.6	41.6	36.8	35.8
82.5°	48.0	36.8	27.8	26.0	25.6
85°	29.3	19.7	17.1	16.5	16.0
87.5°	12.4	8.5	8.0	8.0	7.4
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)