

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: P888089

Luminaire Tested: **DPT5-4F029-127V60-A-XX-UDD_4000K**

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: P888089
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: DPT5-4F029-127V60-A-XX-UDD_4000K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

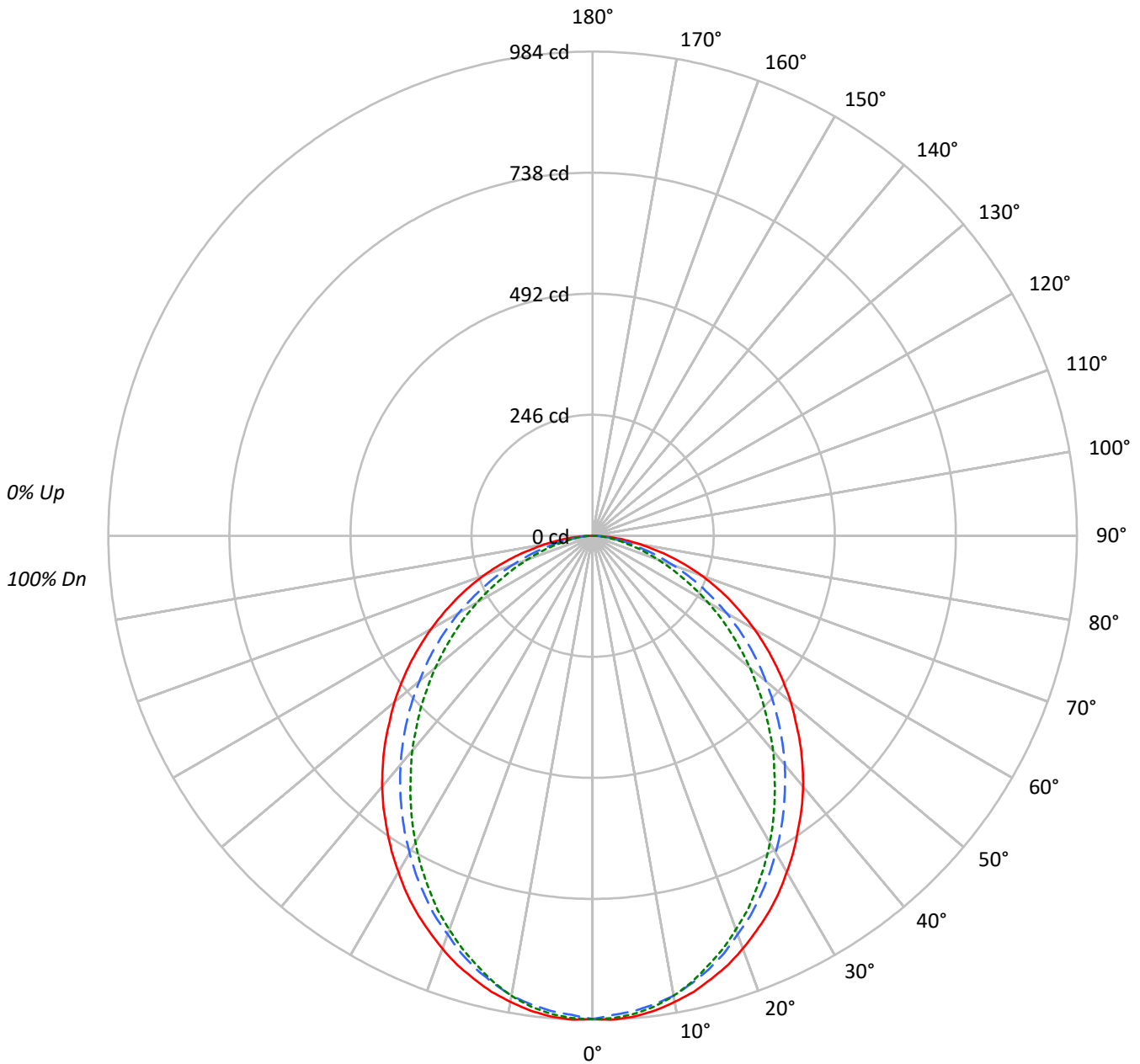
Lumens per Lamp: N/A
Luminaire Lumens: 2320.0 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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°	11695	11695	11695
5°	11722	11589	11657
10°	11633	11480	11480
15°	11495	11246	11156
20°	11317	10922	10792
25°	11109	10603	10369
30°	10852	10230	9904
35°	10589	9844	9381
40°	10343	9443	8868
45°	10042	8992	8307
50°	9742	8506	7724
55°	9396	8042	7101
60°	9044	7472	6429
65°	8635	6817	5661
70°	8162	5989	4882
75°	7510	5052	4063
80°	6612	3971	3416
85°	5562	3252	3047



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.4	4.0
10°-20°	258.3	11.1
20°-30°	374.5	16.1
30°-40°	426.7	18.4
40°-50°	415.8	17.9
50°-60°	350.0	15.1
60°-70°	245.2	10.6
70°-80°	125.8	5.4
80°-90°	31.4	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°	725.2	31.3
0°-40°	1151.8	49.6
0°-60°	1917.7	82.7
0°-90°	2320.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2320.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	982	982	982	982	982	
5°	980	978	969	977	975	93
15°	932	928	912	911	905	263
25°	845	834	807	797	789	389
35°	728	711	677	656	645	456
45°	596	575	534	504	493	460
55°	452	429	387	354	342	405
65°	306	281	242	212	201	303
75°	163	141	110	94	88	172
85°	41	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°	982.0	982.0	982.0	982.0	982.0
2.5°	984.2	982.0	974.6	982.0	981.2
5°	980.5	977.6	969.4	976.6	975.1
7.5°	973.1	970.0	960.4	966.3	964.9
10°	961.9	959.7	949.3	951.6	949.3
12.5°	949.3	946.2	931.4	932.9	929.3
15°	932.3	927.8	912.1	911.4	904.8
17.5°	914.5	907.9	889.1	885.6	880.3
20°	892.9	885.6	861.8	858.1	851.5
22.5°	869.2	861.8	836.7	828.5	823.1
25°	845.4	834.3	806.9	797.2	789.1
27.5°	818.8	805.4	776.5	764.0	755.8
30°	789.1	775.1	743.9	726.9	720.2
32.5°	760.1	743.2	711.3	692.0	683.2
35°	728.3	710.6	677.1	655.7	645.2
37.5°	697.9	676.3	642.2	617.2	606.6
40°	665.3	643.0	607.4	579.2	570.4
42.5°	631.1	608.1	570.9	544.4	530.2
45°	596.2	574.9	533.9	504.3	493.2
47.5°	559.8	537.8	496.8	466.5	453.9
50°	525.8	501.3	459.1	428.0	416.9
52.5°	488.7	463.6	424.1	390.0	378.9
55°	452.5	428.7	387.3	353.8	342.0
57.5°	415.3	390.0	350.1	317.4	307.1
60°	379.7	353.8	313.7	281.1	269.9
62.5°	342.0	317.4	276.7	246.9	235.8
65°	306.4	281.1	241.9	212.0	200.9
67.5°	270.6	245.6	207.6	179.5	170.7
70°	234.4	209.1	172.0	149.0	140.2
72.5°	198.8	174.3	140.2	119.4	114.3
75°	163.2	140.9	109.8	93.6	88.3
77.5°	126.7	109.0	83.0	70.6	66.0
80°	96.4	78.7	57.9	51.2	49.8
82.5°	66.7	51.2	38.7	36.2	35.6
85°	40.7	27.4	23.8	23.0	22.3
87.5°	17.2	11.8	11.1	11.1	10.3
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)