

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: P888080

Luminaire Tested: **DPT5-4F029-109V60-A-XX-UDD_5000K**

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: P888080
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: DPT5-4F029-109V60-A-XX-UDD_5000K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

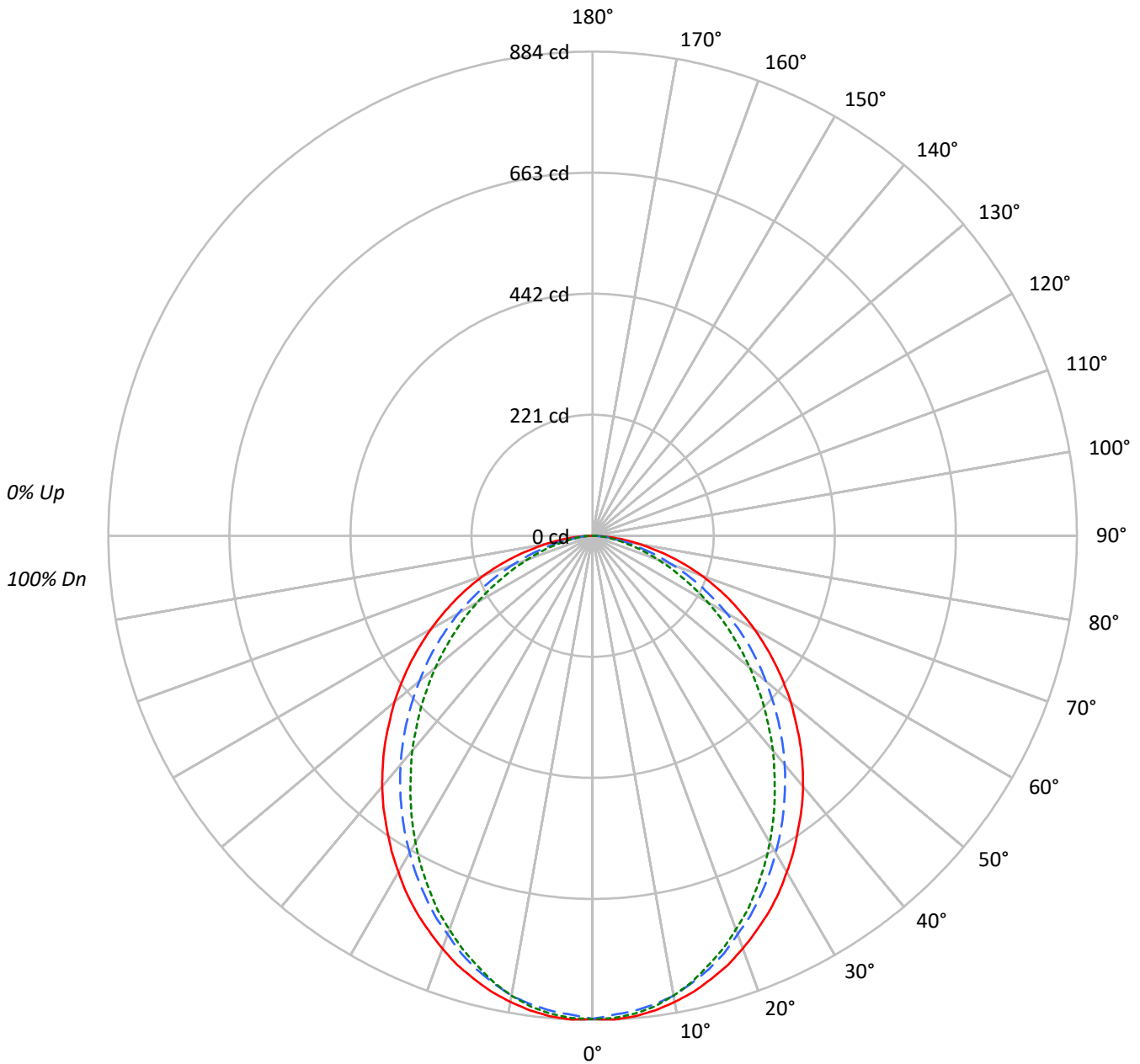
Lumens per Lamp: N/A
Luminaire Lumens: 2084.0 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 20.6
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°	10505	10505	10505
5°	10530	10409	10471
10°	10450	10312	10312
15°	10326	10102	10022
20°	10164	9811	9693
25°	9979	9524	9316
30°	9749	9189	8896
35°	9511	8844	8427
40°	9291	8482	7966
45°	9021	8078	7461
50°	8751	7641	6937
55°	8440	7224	6379
60°	8125	6712	5776
65°	7755	6124	5084
70°	7333	5380	4384
75°	6746	4537	3649
80°	5939	3566	3066
85°	5001	2924	2733



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	4.0
10°-20°	232.0	11.1
20°-30°	336.4	16.1
30°-40°	383.3	18.4
40°-50°	373.5	17.9
50°-60°	314.4	15.1
60°-70°	220.3	10.6
70°-80°	112.9	5.4
80°-90°	28.2	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°	651.4	31.3
0°-40°	1034.7	49.6
0°-60°	1722.6	82.7
0°-90°	2084.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2084.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	882	882	882	882	882	
5°	881	878	871	877	876	84
15°	838	833	819	819	813	236
25°	759	749	725	716	709	350
35°	654	638	608	589	580	410
45°	536	516	480	453	443	413
55°	406	385	348	318	307	363
65°	275	252	217	190	180	272
75°	147	126	99	84	79	155
85°	37	25	21	21	20	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	882.1	882.1	882.1	882.1	882.1
2.5°	884.1	882.1	875.4	882.1	881.4
5°	880.8	878.2	870.7	877.3	875.9
7.5°	874.1	871.4	862.7	868.0	866.8
10°	864.1	862.1	852.7	854.8	852.7
12.5°	852.7	850.0	836.6	838.0	834.8
15°	837.5	833.4	819.3	818.7	812.8
17.5°	821.4	815.5	798.7	795.5	790.8
20°	802.0	795.5	774.1	770.8	764.8
22.5°	780.8	774.1	751.6	744.2	739.4
25°	759.4	749.4	724.8	716.1	708.9
27.5°	735.5	723.4	697.5	686.2	678.9
30°	708.9	696.3	668.2	653.0	646.9
32.5°	682.8	667.6	638.9	621.6	613.7
35°	654.2	638.3	608.3	589.0	579.6
37.5°	626.9	607.5	576.9	554.4	544.9
40°	597.6	577.6	545.6	520.3	512.4
42.5°	566.9	546.2	512.9	489.0	476.3
45°	535.6	516.4	479.6	453.0	443.0
47.5°	502.8	483.1	446.2	419.1	407.7
50°	472.3	450.3	412.4	384.5	374.4
52.5°	439.0	416.5	381.0	350.3	340.3
55°	406.5	385.1	347.9	317.8	307.2
57.5°	373.1	350.3	314.5	285.1	275.8
60°	341.1	317.8	281.8	252.5	242.5
62.5°	307.2	285.1	248.5	221.8	211.8
65°	275.2	252.5	217.3	190.4	180.4
67.5°	243.1	220.6	186.5	161.3	153.4
70°	210.6	187.8	154.5	133.8	125.9
72.5°	178.6	156.6	125.9	107.3	102.7
75°	146.6	126.5	98.6	84.0	79.3
77.5°	113.8	97.9	74.5	63.4	59.3
80°	86.6	70.7	52.0	46.0	44.7
82.5°	59.9	46.0	34.7	32.5	32.0
85°	36.6	24.6	21.4	20.6	20.0
87.5°	15.4	10.6	10.0	10.0	9.3
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)