

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: P888108

Luminaire Tested: **DPT5-4F029-61V60-A-XX-UDD_2700K**

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: P888108
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: DPT5-4F029-61V60-A-XX-UDD_2700K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

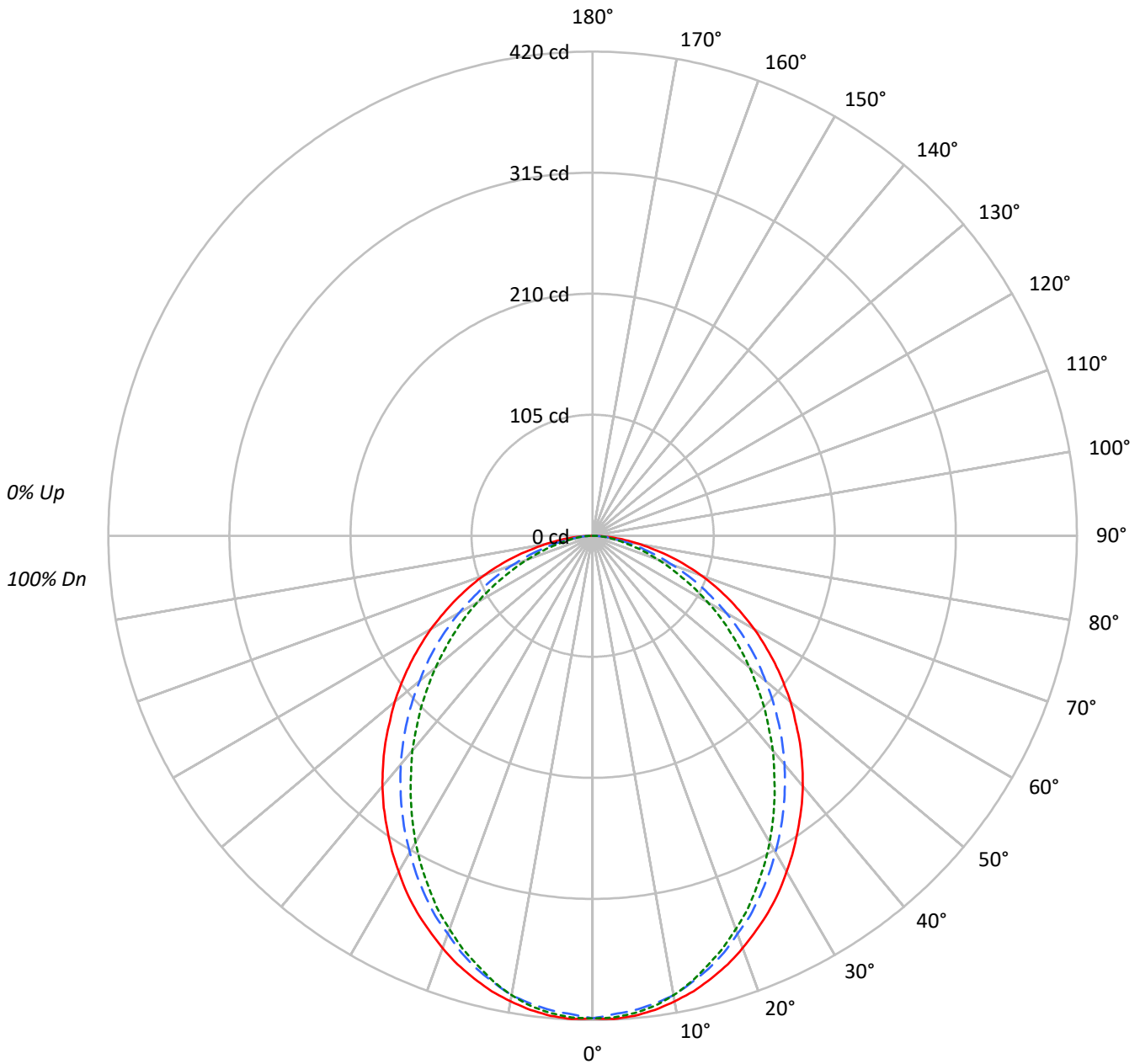
Lumens per Lamp: N/A
Luminaire Lumens: 989.0 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 11.5
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°	4985	4985	4985
5°	4997	4940	4970
10°	4959	4894	4894
15°	4901	4794	4756
20°	4824	4656	4601
25°	4736	4520	4421
30°	4626	4361	4222
35°	4514	4197	4000
40°	4409	4025	3781
45°	4281	3833	3542
50°	4152	3626	3292
55°	4005	3428	3027
60°	3856	3185	2742
65°	3680	2905	2412
70°	3479	2552	2082
75°	3203	2154	1735
80°	2819	1694	1454
85°	2378	1380	1298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.4	4.0
10°-20°	110.1	11.1
20°-30°	159.6	16.1
30°-40°	181.9	18.4
40°-50°	177.3	17.9
50°-60°	149.2	15.1
60°-70°	104.5	10.6
70°-80°	53.6	5.4
80°-90°	13.4	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°	309.1	31.3
0°-40°	491.0	49.6
0°-60°	817.5	82.7
0°-90°	989.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	989.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	419	419	419	419	419	
5°	418	417	413	416	416	40
15°	398	396	389	388	386	112
25°	360	356	344	340	336	166
35°	310	303	289	280	275	194
45°	254	245	228	215	210	196
55°	193	183	165	151	146	172
65°	131	120	103	90	86	129
75°	70	60	47	40	38	74
85°	17	12	10	10	10	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	418.6	418.6	418.6	418.6	418.6
2.5°	419.6	418.6	415.5	418.6	418.3
5°	418.0	416.7	413.2	416.3	415.7
7.5°	414.8	413.5	409.4	411.9	411.4
10°	410.1	409.1	404.7	405.7	404.7
12.5°	404.7	403.4	397.0	397.7	396.2
15°	397.5	395.5	388.8	388.5	385.7
17.5°	389.8	387.0	379.0	377.5	375.3
20°	380.6	377.5	367.4	365.8	363.0
22.5°	370.5	367.4	356.7	353.2	350.9
25°	360.4	355.6	344.0	339.9	336.4
27.5°	349.1	343.3	331.0	325.7	322.2
30°	336.4	330.4	317.1	309.9	307.0
32.5°	324.0	316.8	303.2	295.0	291.2
35°	310.5	302.9	288.7	279.5	275.1
37.5°	297.5	288.3	273.8	263.1	258.6
40°	283.6	274.1	258.9	246.9	243.2
42.5°	269.0	259.2	243.4	232.1	226.0
45°	254.2	245.1	227.6	215.0	210.3
47.5°	238.6	229.3	211.8	198.9	193.5
50°	224.1	213.7	195.7	182.5	177.7
52.5°	208.3	197.6	180.8	166.3	161.5
55°	192.9	182.7	165.1	150.8	145.8
57.5°	177.1	166.3	149.3	135.3	130.9
60°	161.9	150.8	133.7	119.8	115.1
62.5°	145.8	135.3	117.9	105.3	100.5
65°	130.6	119.8	103.1	90.4	85.6
67.5°	115.4	104.7	88.5	76.5	72.8
70°	99.9	89.1	73.3	63.5	59.8
72.5°	84.7	74.3	59.8	50.9	48.7
75°	69.6	60.1	46.8	39.9	37.7
77.5°	54.0	46.4	35.4	30.1	28.2
80°	41.1	33.5	24.7	21.8	21.2
82.5°	28.4	21.8	16.5	15.4	15.2
85°	17.4	11.7	10.1	9.8	9.5
87.5°	7.3	5.0	4.8	4.8	4.4
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)