

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: P888120

Luminaire Tested: **DPT5-4F029-85V60-A-XX-UDD_3000K**

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: P888120
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_3000K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

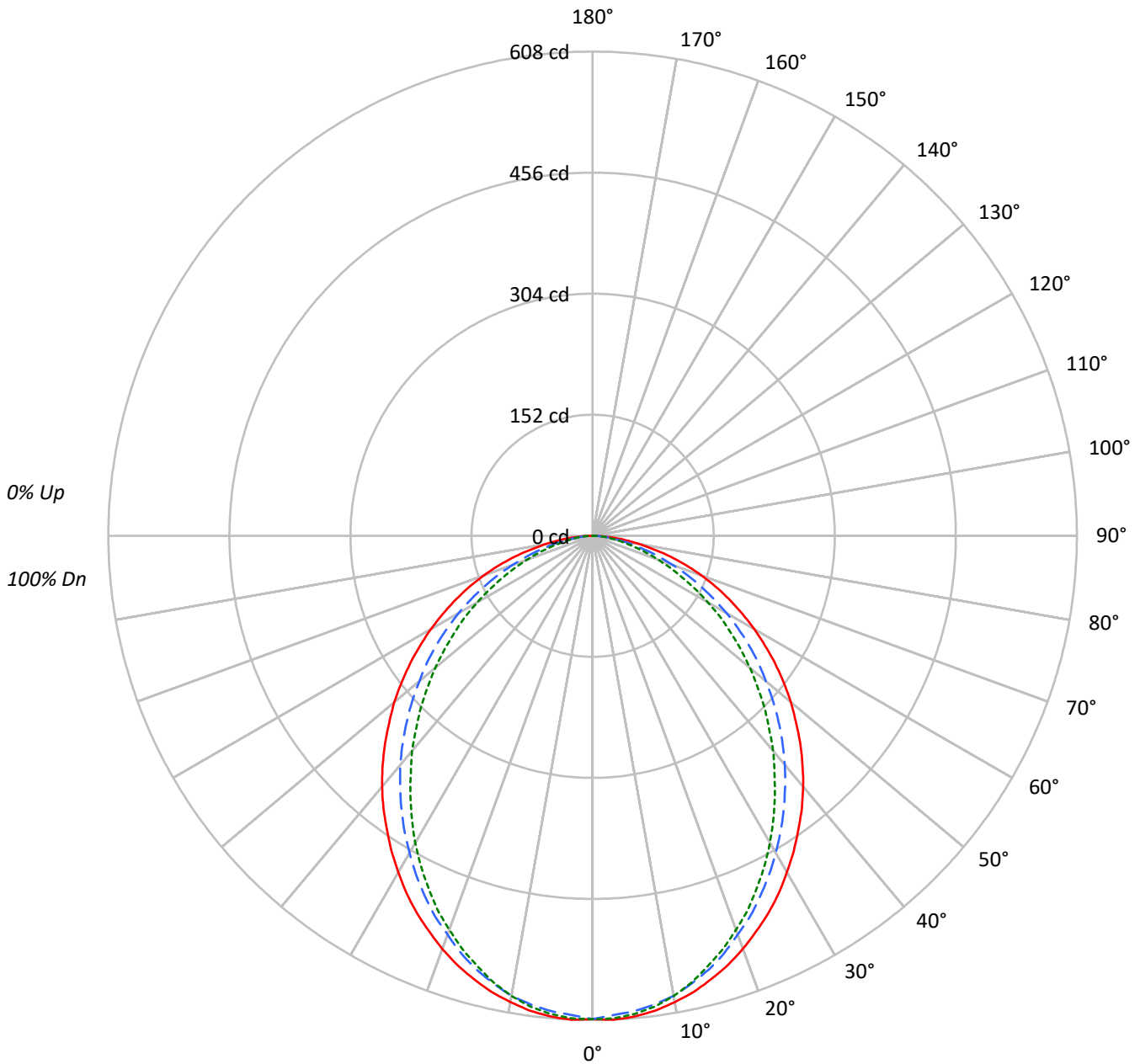
Lumens per Lamp: N/A
Luminaire Lumens: 1434.0 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')
CIE Type: Direct

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°	7229	7229	7229
5°	7245	7163	7205
10°	7191	7095	7095
15°	7106	6952	6896
20°	6995	6751	6670
25°	6866	6553	6410
30°	6708	6323	6122
35°	6545	6085	5798
40°	6393	5836	5482
45°	6207	5558	5135
50°	6022	5258	4775
55°	5808	4971	4389
60°	5590	4619	3973
65°	5337	4213	3500
70°	5046	3702	3019
75°	4643	3124	2512
80°	4088	2455	2112
85°	3444	2009	1886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	4.0
10°-20°	159.6	11.1
20°-30°	231.5	16.1
30°-40°	263.7	18.4
40°-50°	257.0	17.9
50°-60°	216.3	15.1
60°-70°	151.6	10.6
70°-80°	77.7	5.4
80°-90°	19.4	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°	448.2	31.3
0°-40°	712.0	49.6
0°-60°	1185.3	82.7
0°-90°	1434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1434.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	607	607	607	607	607	
5°	606	604	599	604	603	57
15°	576	574	564	563	559	162
25°	522	516	499	493	488	240
35°	450	439	418	405	399	282
45°	368	355	330	312	305	284
55°	280	265	239	219	211	250
65°	189	174	150	131	124	188
75°	101	87	68	58	55	107
85°	25	17	15	14	14	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	607.0	607.0	607.0	607.0	607.0
2.5°	608.3	607.0	602.4	607.0	606.5
5°	606.0	604.3	599.2	603.7	602.7
7.5°	601.5	599.6	593.6	597.3	596.4
10°	594.6	593.2	586.7	588.2	586.7
12.5°	586.7	584.9	575.7	576.6	574.4
15°	576.3	573.5	563.8	563.4	559.3
17.5°	565.2	561.1	549.6	547.4	544.1
20°	551.9	547.4	532.7	530.4	526.3
22.5°	537.3	532.7	517.2	512.1	508.8
25°	522.5	515.7	498.7	492.8	487.8
27.5°	506.1	497.8	479.9	472.2	467.2
30°	487.8	479.1	459.8	449.3	445.2
32.5°	469.8	459.4	439.6	427.7	422.3
35°	450.2	439.2	418.5	405.3	398.8
37.5°	431.4	418.0	396.9	381.5	374.9
40°	411.2	397.5	375.4	358.0	352.6
42.5°	390.1	375.9	352.9	336.5	327.7
45°	368.5	355.4	330.0	311.7	304.9
47.5°	346.0	332.4	307.1	288.4	280.5
50°	325.0	309.9	283.8	264.5	257.7
52.5°	302.0	286.6	262.2	241.1	234.2
55°	279.7	265.0	239.4	218.7	211.4
57.5°	256.7	241.1	216.4	196.2	189.8
60°	234.7	218.7	193.9	173.7	166.8
62.5°	211.4	196.2	171.0	152.6	145.8
65°	189.4	173.7	149.5	131.0	124.2
67.5°	167.3	151.8	128.3	111.0	105.5
70°	144.9	129.3	106.3	92.1	86.7
72.5°	122.9	107.7	86.7	73.8	70.7
75°	100.9	87.1	67.9	57.8	54.6
77.5°	78.3	67.3	51.3	43.6	40.8
80°	59.6	48.6	35.8	31.6	30.8
82.5°	41.2	31.6	23.9	22.4	22.0
85°	25.2	16.9	14.7	14.2	13.8
87.5°	10.6	7.3	6.9	6.9	6.4
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)