

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: P888059

Luminaire Tested: **DPT5-4F021-61V60-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: P888059
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: DPT5-4F021-61V60-A-XX-UDD_6500K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

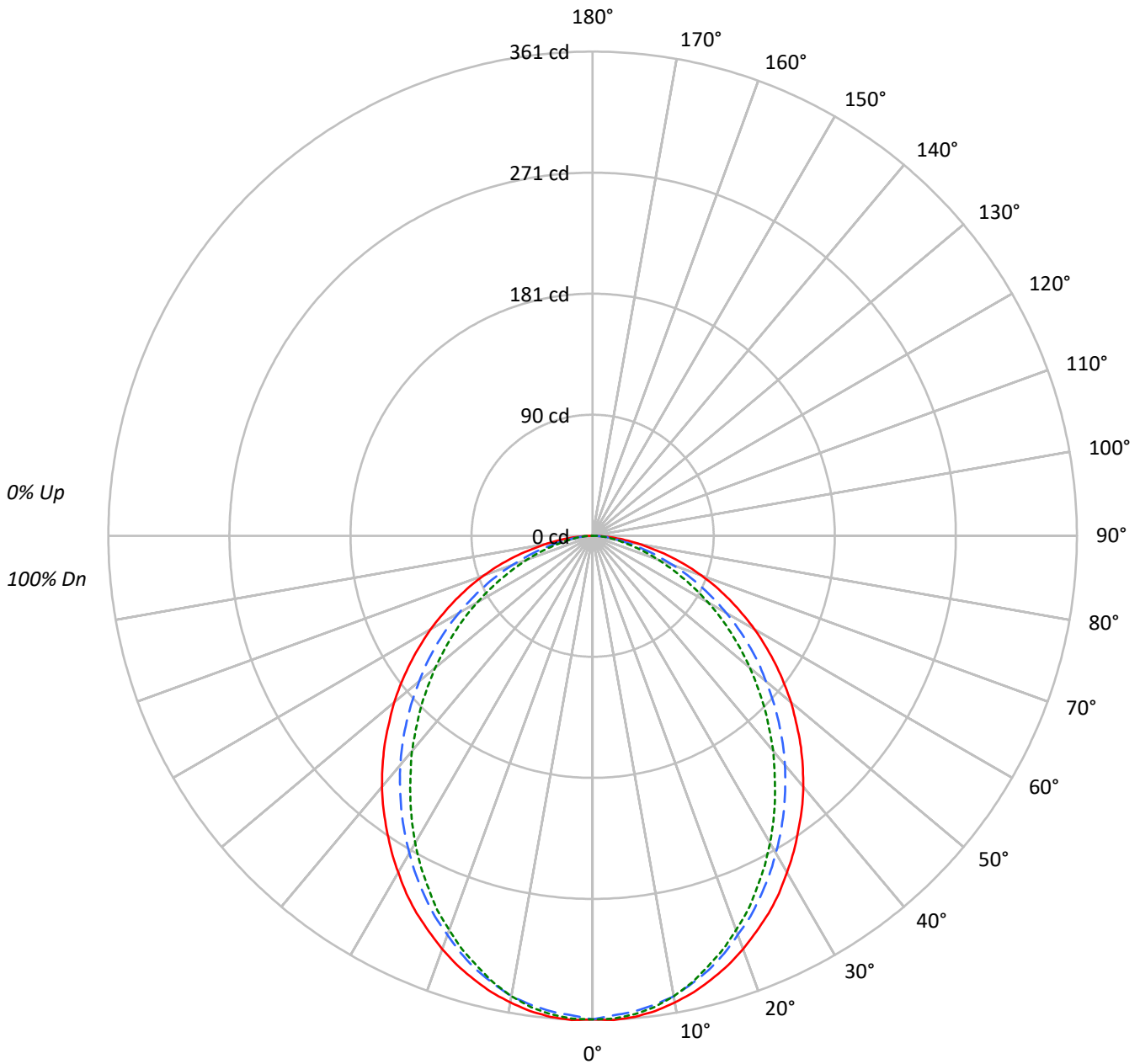
Lumens per Lamp: N/A
Luminaire Lumens: 852.0 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 8.2
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

TEST NUMBER: P888059

CATALOG NUMBER: DPT5-4F021-61V60-A-XX-UDD_6500K

Luminous Intensity Polar Plot





TEST NUMBER: P888059

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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°	6034	6034	6034
5°	6049	5980	6015
10°	6003	5923	5923
15°	5932	5804	5757
20°	5839	5636	5568
25°	5733	5471	5351
30°	5600	5279	5111
35°	5465	5080	4841
40°	5337	4873	4576
45°	5183	4641	4286
50°	5027	4389	3986
55°	4849	4149	3664
60°	4665	3855	3317
65°	4454	3516	2922
70°	4213	3092	2520
75°	3873	2606	2095
80°	3411	2053	1763
85°	2880	1670	1574



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.9	4.0
10°-20°	94.8	11.1
20°-30°	137.5	16.1
30°-40°	156.7	18.4
40°-50°	152.7	17.9
50°-60°	128.5	15.1
60°-70°	90.1	10.6
70°-80°	46.2	5.4
80°-90°	11.5	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°	266.3	31.3
0°-40°	423.0	49.6
0°-60°	704.2	82.7
0°-90°	852.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	852.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	361	361	361	361	361	
5°	360	359	356	359	358	34
15°	342	341	335	335	332	97
25°	310	306	296	293	290	143
35°	268	261	249	241	237	167
45°	219	211	196	185	181	169
55°	166	157	142	130	126	149
65°	112	103	89	78	74	111
75°	60	52	40	34	32	63
85°	15	10	9	8	8	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	360.6	360.6	360.6	360.6	360.6
2.5°	361.4	360.6	357.9	360.6	360.3
5°	360.1	359.0	356.0	358.7	358.1
7.5°	357.4	356.2	352.7	354.9	354.4
10°	353.3	352.4	348.6	349.5	348.6
12.5°	348.6	347.5	342.0	342.6	341.3
15°	342.4	340.7	335.0	334.7	332.3
17.5°	335.8	333.4	326.5	325.2	323.3
20°	327.9	325.2	316.5	315.1	312.7
22.5°	319.2	316.5	307.3	304.3	302.3
25°	310.5	306.4	296.3	292.8	289.8
27.5°	300.7	295.8	285.2	280.6	277.6
30°	289.8	284.6	273.2	267.0	264.5
32.5°	279.1	272.9	261.2	254.1	250.9
35°	267.5	261.0	248.7	240.8	237.0
37.5°	256.3	248.4	235.8	226.6	222.8
40°	244.3	236.1	223.1	212.7	209.5
42.5°	231.7	223.3	209.7	199.9	194.7
45°	219.0	211.1	196.1	185.2	181.1
47.5°	205.6	197.5	182.4	171.3	166.7
50°	193.1	184.1	168.6	157.2	153.1
52.5°	179.5	170.3	155.8	143.2	139.1
55°	166.2	157.4	142.2	129.9	125.6
57.5°	152.5	143.2	128.6	116.6	112.8
60°	139.4	129.9	115.2	103.2	99.1
62.5°	125.6	116.6	101.6	90.7	86.6
65°	112.5	103.2	88.8	77.9	73.8
67.5°	99.4	90.2	76.2	65.9	62.7
70°	86.1	76.8	63.2	54.7	51.5
72.5°	73.0	64.0	51.5	43.9	42.0
75°	59.9	51.7	40.3	34.4	32.4
77.5°	46.5	40.0	30.5	25.9	24.3
80°	35.4	28.9	21.3	18.8	18.3
82.5°	24.5	18.8	14.2	13.3	13.1
85°	15.0	10.1	8.7	8.4	8.2
87.5°	6.3	4.3	4.1	4.1	3.8
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)