

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: P888060

Luminaire Tested: **DPT5-4F021-85S27-A-XX-UDD**

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: P888060
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: DPT5-4F021-85S27-A-XX-UDD
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

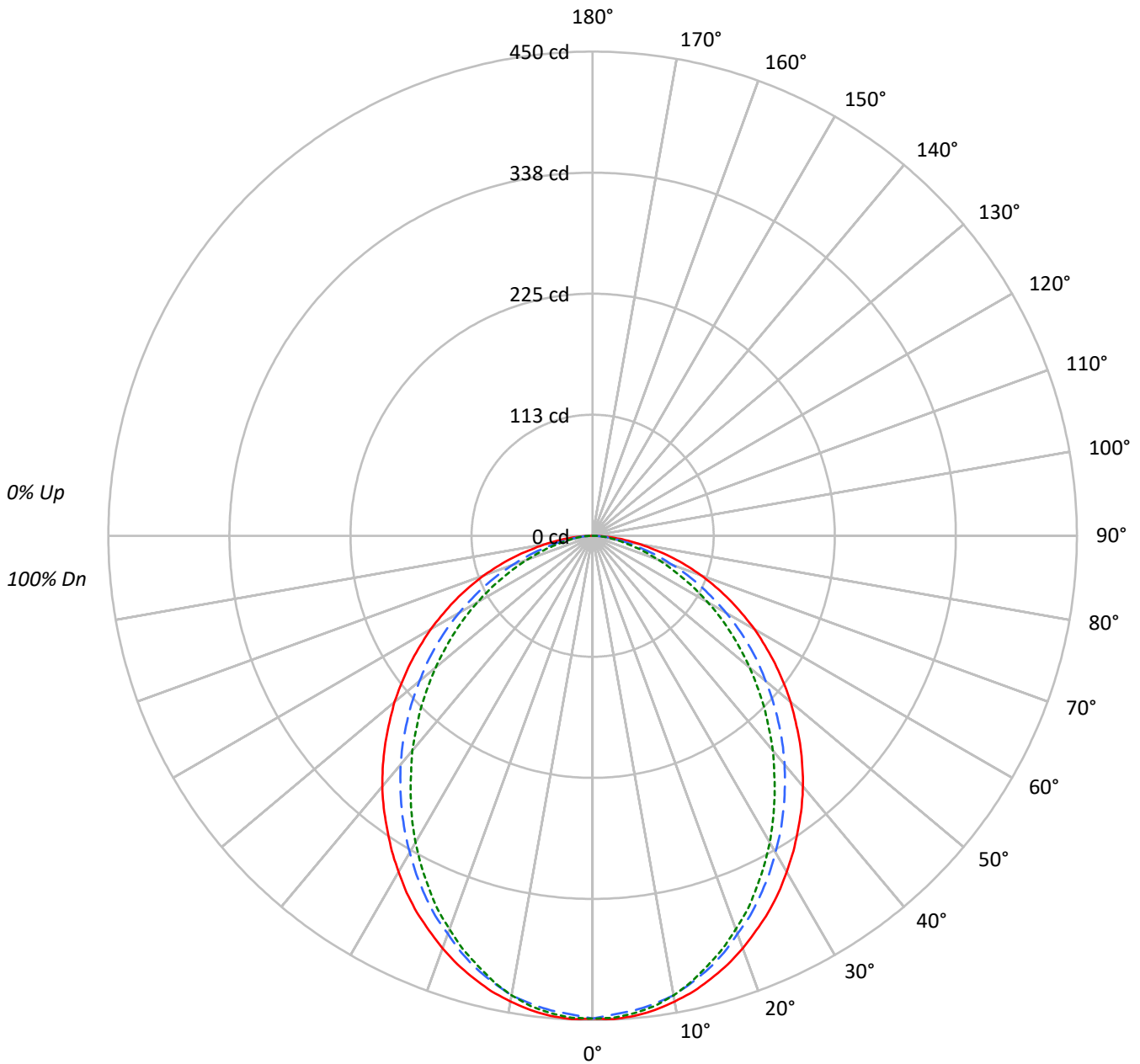
Lumens per Lamp: N/A
Luminaire Lumens: 1060.0 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 11.4
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°	7508	7508	7508
5°	7525	7440	7483
10°	7468	7369	7369
15°	7380	7219	7162
20°	7264	7011	6927
25°	7133	6808	6658
30°	6968	6568	6359
35°	6798	6320	6022
40°	6641	6062	5693
45°	6446	5772	5332
50°	6253	5462	4959
55°	6030	5161	4560
60°	5807	4796	4127
65°	5543	4375	3635
70°	5240	3846	3136
75°	4817	3246	2612
80°	4250	2554	2197
85°	3571	2093	1958



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.2	4.0
10°-20°	118.0	11.1
20°-30°	171.1	16.1
30°-40°	194.9	18.4
40°-50°	190.0	17.9
50°-60°	159.9	15.1
60°-70°	112.1	10.6
70°-80°	57.5	5.4
80°-90°	14.3	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°	331.3	31.3
0°-40°	526.3	49.6
0°-60°	876.2	82.7
0°-90°	1060.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1060.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	449	449	449	449	449	
5°	448	447	443	446	446	42
15°	426	424	417	416	413	120
25°	386	381	369	364	361	178
35°	333	325	309	300	295	208
45°	272	263	244	230	225	210
55°	207	196	177	162	156	185
65°	140	128	110	97	92	139
75°	74	64	50	43	40	79
85°	19	12	11	10	10	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	448.7	448.7	448.7	448.7	448.7
2.5°	449.7	448.7	445.3	448.7	448.3
5°	448.0	446.7	442.9	446.2	445.5
7.5°	444.6	443.2	438.8	441.5	440.9
10°	439.5	438.5	433.7	434.8	433.7
12.5°	433.7	432.3	425.5	426.2	424.6
15°	426.0	423.9	416.7	416.4	413.4
17.5°	417.8	414.8	406.2	404.6	402.2
20°	407.9	404.6	393.7	392.0	389.0
22.5°	397.1	393.7	382.3	378.5	376.1
25°	386.3	381.2	368.7	364.3	360.6
27.5°	374.1	368.0	354.8	349.0	345.3
30°	360.6	354.1	339.9	332.1	329.1
32.5°	347.3	339.6	325.0	316.2	312.2
35°	332.8	324.7	309.4	299.6	294.8
37.5°	318.9	309.0	293.4	282.0	277.1
40°	304.0	293.8	277.5	264.6	260.6
42.5°	288.3	277.8	260.9	248.7	242.3
45°	272.4	262.7	243.9	230.4	225.3
47.5°	255.8	245.7	227.0	213.1	207.4
50°	240.2	229.1	209.8	195.5	190.5
52.5°	223.3	211.8	193.8	178.2	173.1
55°	206.7	195.9	176.9	161.7	156.3
57.5°	189.8	178.2	160.0	145.0	140.3
60°	173.5	161.7	143.3	128.4	123.3
62.5°	156.3	145.0	126.4	112.8	107.7
65°	140.0	128.4	110.5	96.9	91.8
67.5°	123.6	112.2	94.9	82.0	78.0
70°	107.1	95.5	78.6	68.1	64.1
72.5°	90.8	79.6	64.1	54.6	52.2
75°	74.5	64.4	50.2	42.7	40.4
77.5°	57.9	49.8	37.9	32.2	30.2
80°	44.1	36.0	26.5	23.4	22.8
82.5°	30.5	23.4	17.7	16.5	16.3
85°	18.6	12.5	10.9	10.5	10.2
87.5°	7.9	5.4	5.1	5.1	4.7
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)