

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: P888020

Luminaire Tested: **DPT5-4F021-109V60-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: P888020
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: DPT5-4F021-109V60-A-XX-UDD_2700K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

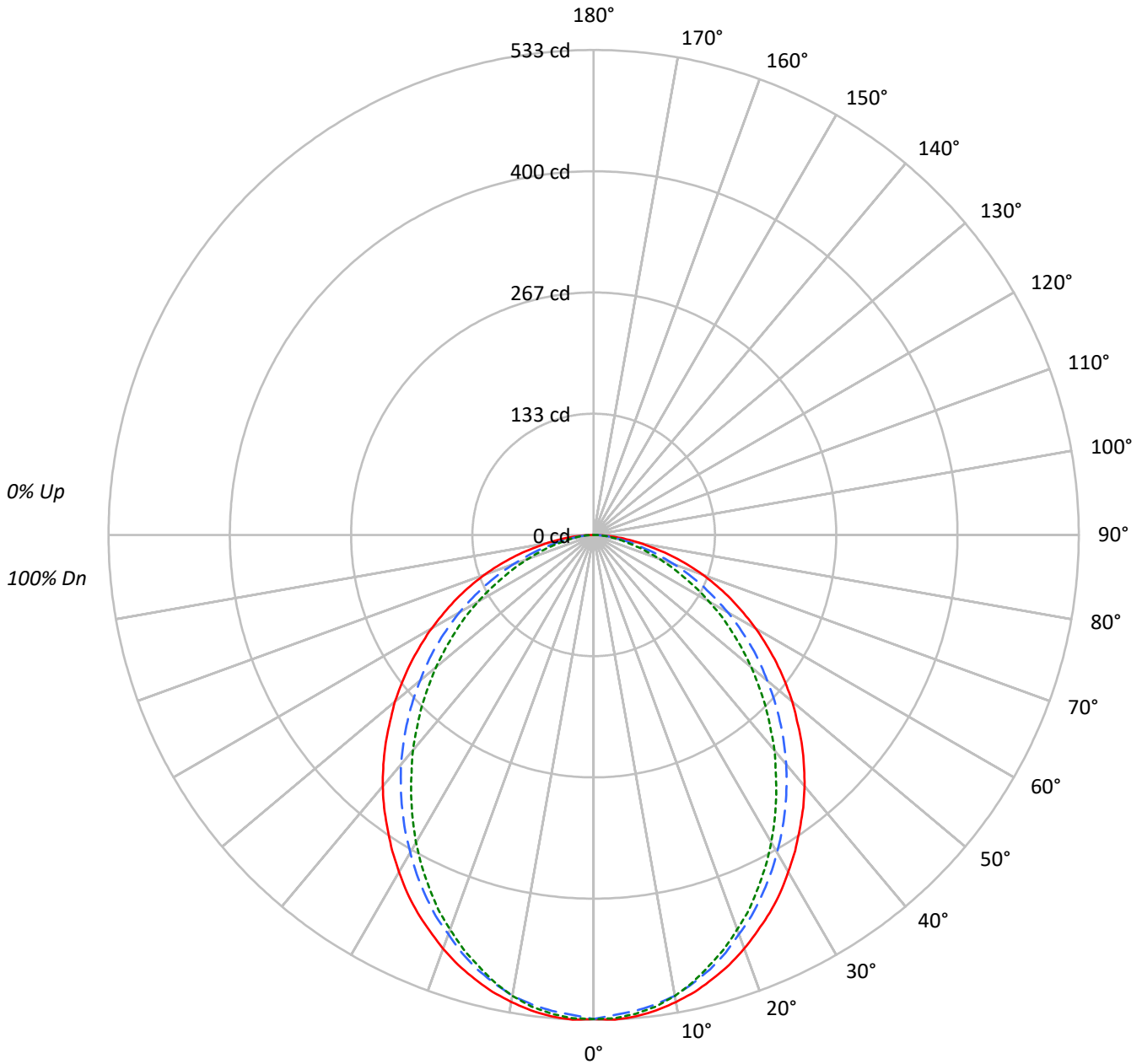
Lumens per Lamp: N/A
Luminaire Lumens: 1257.0 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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°	8904	8904	8904
5°	8923	8822	8874
10°	8856	8739	8739
15°	8752	8562	8492
20°	8615	8314	8215
25°	8456	8072	7895
30°	8262	7787	7540
35°	8061	7495	7142
40°	7875	7189	6750
45°	7646	6846	6323
50°	7417	6474	5881
55°	7154	6121	5406
60°	6884	5686	4893
65°	6573	5187	4308
70°	6214	4560	3718
75°	5715	3847	3097
80°	5040	3026	2602
85°	4243	2477	2323



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.1	4.0
10°-20°	139.9	11.1
20°-30°	202.9	16.1
30°-40°	231.2	18.4
40°-50°	225.3	17.9
50°-60°	189.6	15.1
60°-70°	132.9	10.6
70°-80°	68.1	5.4
80°-90°	17.0	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°	392.9	31.3
0°-40°	624.1	49.6
0°-60°	1039.0	82.7
0°-90°	1257.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1257.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	532	532	532	532	532	
5°	531	530	525	529	528	50
15°	505	503	494	494	490	142
25°	458	452	437	432	428	211
35°	395	385	367	355	350	247
45°	323	312	289	273	267	249
55°	245	232	210	192	185	219
65°	166	152	131	115	109	164
75°	88	76	60	51	48	93
85°	22	15	13	12	12	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	532.1	532.1	532.1	532.1	532.1
2.5°	533.3	532.1	528.0	532.1	531.6
5°	531.2	529.7	525.2	529.2	528.3
7.5°	527.2	525.6	520.4	523.6	522.8
10°	521.2	520.0	514.3	515.6	514.3
12.5°	514.3	512.7	504.6	505.5	503.5
15°	505.2	502.7	494.2	493.8	490.2
17.5°	495.5	491.9	481.7	479.8	477.0
20°	483.8	479.8	466.9	464.9	461.3
22.5°	470.9	466.9	453.3	448.9	446.0
25°	458.0	452.0	437.2	432.0	427.6
27.5°	443.7	436.4	420.7	413.9	409.5
30°	427.6	420.0	403.0	393.9	390.2
32.5°	411.8	402.7	385.4	374.9	370.2
35°	394.6	385.0	366.9	355.3	349.6
37.5°	378.1	366.4	348.0	334.4	328.6
40°	360.5	348.4	329.1	313.8	309.0
42.5°	341.9	329.5	309.3	295.0	287.3
45°	323.1	311.5	289.3	273.3	267.2
47.5°	303.3	291.4	269.2	252.8	245.9
50°	284.9	271.6	248.7	231.9	225.9
52.5°	264.8	251.2	229.8	211.3	205.3
55°	245.2	232.3	209.8	191.7	185.3
57.5°	225.0	211.3	189.7	172.0	166.4
60°	205.7	191.7	169.9	152.3	146.2
62.5°	185.3	172.0	149.9	133.8	127.8
65°	166.0	152.3	131.0	114.9	108.8
67.5°	146.6	133.1	112.5	97.3	92.5
70°	127.0	113.3	93.2	80.7	76.0
72.5°	107.7	94.4	76.0	64.7	61.9
75°	88.4	76.3	59.5	50.7	47.9
77.5°	68.7	59.0	44.9	38.2	35.8
80°	52.3	42.6	31.4	27.7	27.0
82.5°	36.2	27.7	20.9	19.6	19.3
85°	22.1	14.8	12.9	12.4	12.1
87.5°	9.3	6.4	6.0	6.0	5.6
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)