

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: P888033

Luminaire Tested: **DPT5-4F021-127V60-A-XX-UDD_3500K**

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: P888033
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: DPT5-4F021-127V60-A-XX-UDD_3500K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

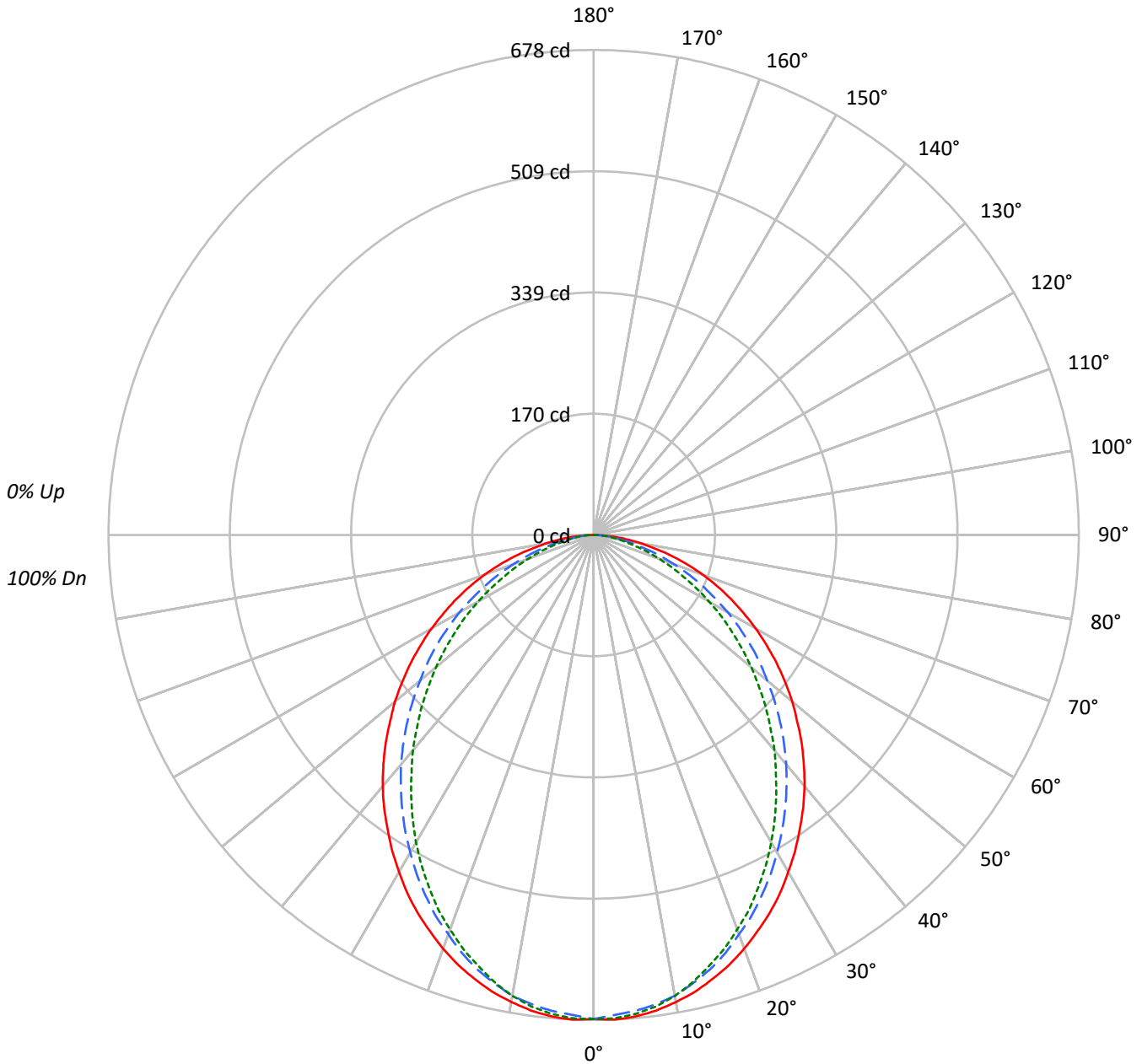
Lumens per Lamp: N/A
Luminaire Lumens: 1599.0 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 17
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°	11325	11325	11325
5°	11352	11223	11290
10°	11266	11118	11118
15°	11132	10892	10803
20°	10959	10578	10450
25°	10759	10268	10042
30°	10509	9907	9592
35°	10255	9534	9084
40°	10016	9144	8587
45°	9724	8709	8044
50°	9434	8237	7479
55°	9099	7787	6876
60°	8758	7236	6225
65°	8363	6601	5480
70°	7906	5798	4726
75°	7274	4894	3937
80°	6408	3845	3305
85°	5395	3149	2957



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.7	4.0
10°-20°	178.0	11.1
20°-30°	258.1	16.1
30°-40°	294.1	18.4
40°-50°	286.6	17.9
50°-60°	241.2	15.1
60°-70°	169.0	10.6
70°-80°	86.7	5.4
80°-90°	21.6	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°	499.8	31.3
0°-40°	793.9	49.6
0°-60°	1321.7	82.7
0°-90°	1599.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1599.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	677	677	677	677	677	
5°	676	674	668	673	672	64
15°	643	640	629	628	624	181
25°	583	575	556	550	544	268
35°	502	490	467	452	445	314
45°	411	396	368	348	340	317
55°	312	296	267	244	236	279
65°	211	194	167	146	138	209
75°	112	97	76	64	61	119
85°	28	19	16	16	15	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	676.8	676.8	676.8	676.8	676.8
2.5°	678.3	676.8	671.7	676.8	676.3
5°	675.8	673.8	668.1	673.1	672.1
7.5°	670.7	668.6	661.9	666.0	665.1
10°	663.0	661.5	654.3	655.9	654.3
12.5°	654.3	652.2	641.9	643.0	640.5
15°	642.6	639.5	628.7	628.2	623.6
17.5°	630.3	625.7	612.8	610.4	606.8
20°	615.4	610.4	594.0	591.4	586.8
22.5°	599.1	594.0	576.7	571.0	567.3
25°	582.7	575.0	556.1	549.5	543.9
27.5°	564.4	555.1	535.2	526.5	520.9
30°	543.9	534.2	512.7	501.0	496.4
32.5°	523.9	512.2	490.2	476.9	470.9
35°	502.0	489.7	466.7	451.9	444.7
37.5°	481.0	466.1	442.6	425.4	418.1
40°	458.5	443.2	418.6	399.2	393.1
42.5°	434.9	419.1	393.5	375.2	365.4
45°	410.9	396.3	368.0	347.6	339.9
47.5°	385.8	370.7	342.4	321.5	312.8
50°	362.4	345.5	316.4	295.0	287.3
52.5°	336.8	319.5	292.3	268.8	261.1
55°	311.9	295.5	266.9	243.9	235.7
57.5°	286.3	268.8	241.3	218.7	211.6
60°	261.7	243.9	216.2	193.7	186.0
62.5°	235.7	218.7	190.7	170.2	162.5
65°	211.2	193.7	166.7	146.1	138.4
67.5°	186.5	169.3	143.1	123.7	117.7
70°	161.6	144.1	118.5	102.7	96.6
72.5°	137.0	120.1	96.6	82.3	78.8
75°	112.5	97.1	75.7	64.5	60.9
77.5°	87.3	75.1	57.2	48.6	45.5
80°	66.5	54.2	39.9	35.3	34.3
82.5°	46.0	35.3	26.6	24.9	24.6
85°	28.1	18.9	16.4	15.8	15.4
87.5°	11.9	8.2	7.7	7.7	7.1
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)