

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: P888019

Luminaire Tested: **DPT5-4F021-109S40-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: P888019
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: DPT5-4F021-109S40-A-XX-UDD
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

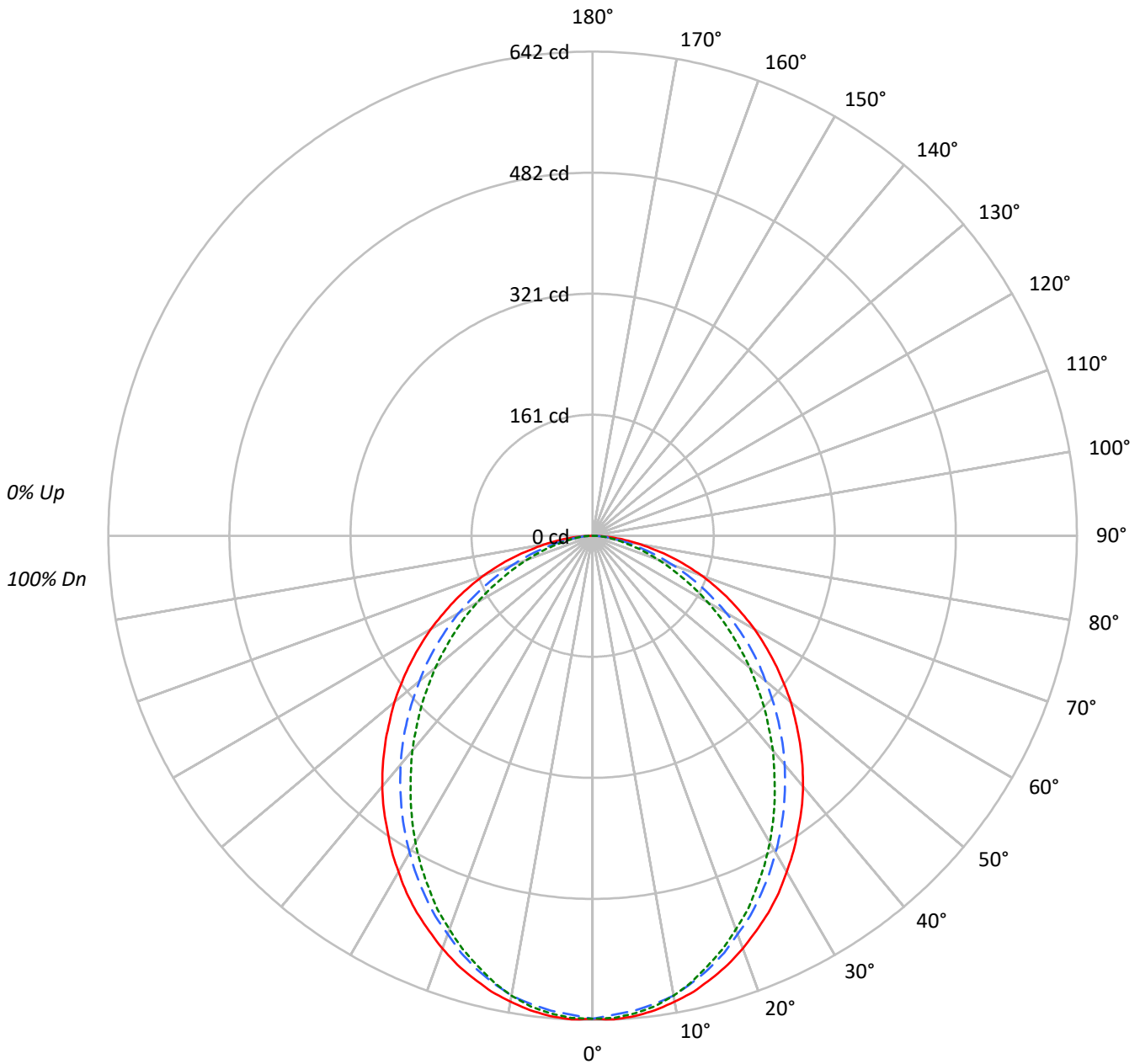
Lumens per Lamp: N/A
Luminaire Lumens: 1513.0 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

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°	10716	10716	10716
5°	10740	10619	10682
10°	10659	10520	10520
15°	10533	10304	10223
20°	10369	10008	9889
25°	10179	9716	9501
30°	9943	9373	9076
35°	9703	9021	8596
40°	9478	8653	8126
45°	9201	8240	7611
50°	8927	7794	7078
55°	8609	7369	6506
60°	8287	6847	5890
65°	7911	6244	5187
70°	7481	5490	4472
75°	6879	4629	3724
80°	6061	3643	3132
85°	5107	2976	2784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.3	4.0
10°-20°	168.4	11.1
20°-30°	244.2	16.1
30°-40°	278.3	18.4
40°-50°	271.2	17.9
50°-60°	228.3	15.1
60°-70°	159.9	10.6
70°-80°	82.0	5.4
80°-90°	20.5	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°	472.9	31.3
0°-40°	751.2	49.6
0°-60°	1250.6	82.7
0°-90°	1513.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1513.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	640	640	640	640	640	
5°	639	638	632	637	636	61
15°	608	605	595	594	590	171
25°	551	544	526	520	515	254
35°	475	463	442	428	421	297
45°	389	375	348	329	322	300
55°	295	280	253	231	223	264
65°	200	183	158	138	131	198
75°	106	92	72	61	58	112
85°	27	18	16	15	14	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	640.4	640.4	640.4	640.4	640.4
2.5°	641.9	640.4	635.6	640.4	639.9
5°	639.4	637.6	632.2	636.9	635.9
7.5°	634.6	632.6	626.3	630.2	629.3
10°	627.3	625.9	619.1	620.6	619.1
12.5°	619.1	617.1	607.4	608.4	606.1
15°	608.0	605.1	594.8	594.4	590.1
17.5°	596.4	592.1	579.9	577.5	574.1
20°	582.3	577.5	562.0	559.6	555.3
22.5°	566.9	562.0	545.7	540.3	536.8
25°	551.3	544.1	526.2	519.9	514.6
27.5°	534.0	525.2	506.4	498.2	492.9
30°	514.6	505.5	485.1	474.1	469.7
32.5°	495.7	484.7	463.9	451.3	445.6
35°	475.0	463.4	441.6	427.6	420.8
37.5°	455.2	441.1	418.8	402.5	395.6
40°	433.9	419.4	396.1	377.7	372.0
42.5°	411.5	396.6	372.3	355.0	345.8
45°	388.8	374.9	348.2	328.9	321.6
47.5°	365.1	350.7	324.0	304.2	296.0
50°	342.9	326.9	299.4	279.1	271.9
52.5°	318.7	302.4	276.6	254.4	247.1
55°	295.1	279.6	252.6	230.8	223.0
57.5°	270.9	254.4	228.3	207.0	200.3
60°	247.6	230.8	204.6	183.3	176.0
62.5°	223.0	207.0	180.4	161.0	153.8
65°	199.8	183.3	157.7	138.3	131.0
67.5°	176.5	160.2	135.4	117.1	111.3
70°	152.9	136.4	112.2	97.2	91.4
72.5°	129.6	113.7	91.4	77.9	74.6
75°	106.4	91.9	71.6	61.0	57.6
77.5°	82.6	71.1	54.1	46.0	43.1
80°	62.9	51.3	37.8	33.4	32.5
82.5°	43.5	33.4	25.2	23.6	23.2
85°	26.6	17.9	15.5	15.0	14.5
87.5°	11.2	7.7	7.3	7.3	6.7
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)