

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: P888300

Luminaire Tested: **DPT5-4F021-109V60-F-XX-UDD_5000K**

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: P888300
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-F-XX-UDD_5000K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

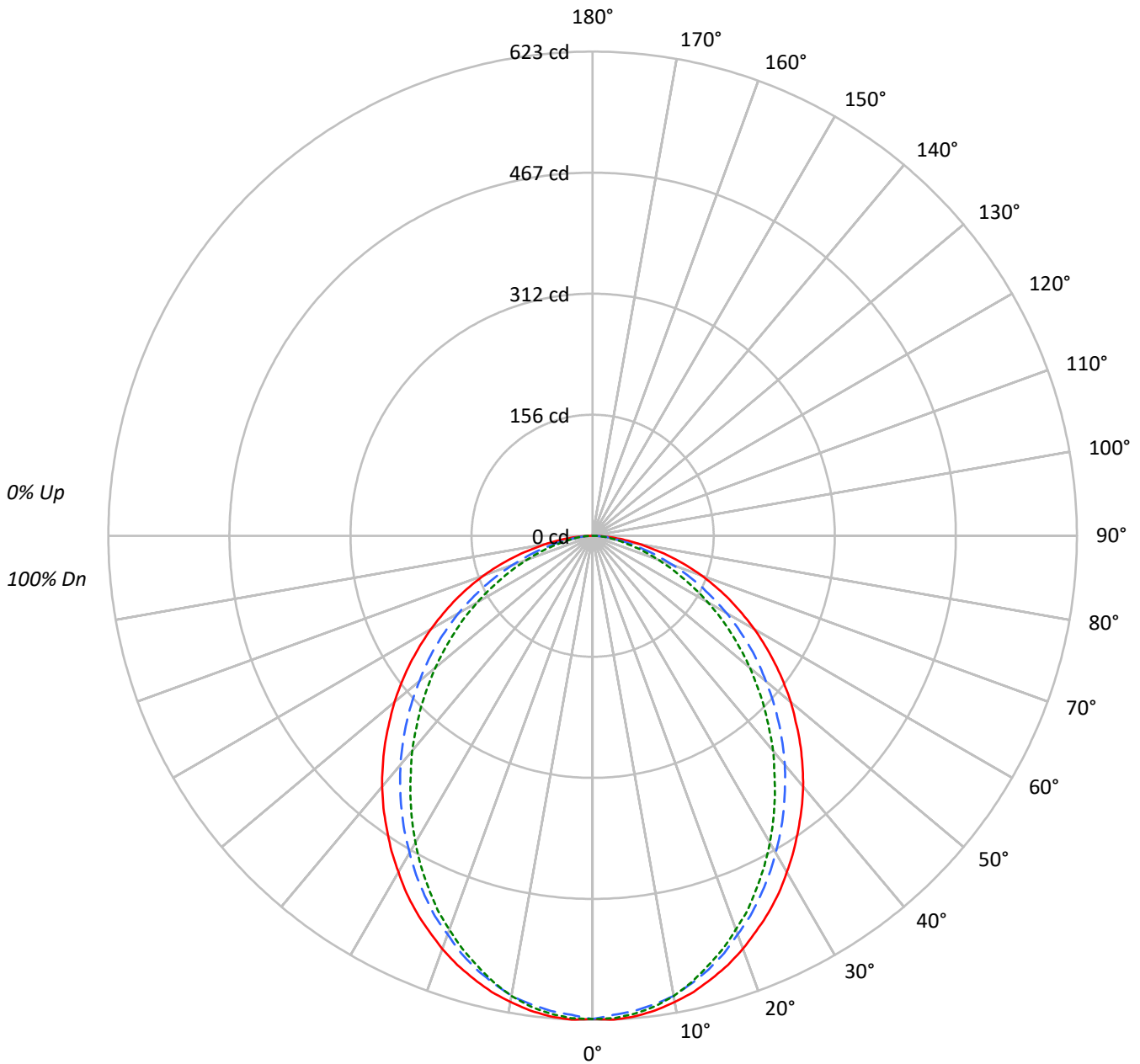
Lumens per Lamp: N/A
Luminaire Lumens: 1469.0 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')
CIE Type: Direct

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°	10405	10405	10405
5°	10428	10310	10371
10°	10350	10214	10214
15°	10228	10005	9925
20°	10068	9718	9600
25°	9884	9433	9226
30°	9655	9101	8811
35°	9421	8760	8347
40°	9203	8401	7890
45°	8934	8001	7391
50°	8666	7568	6870
55°	8358	7154	6319
60°	8046	6647	5720
65°	7682	6062	5037
70°	7261	5328	4345
75°	6679	4493	3614
80°	5888	3537	3036
85°	4954	2899	2707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.5	4.0
10°-20°	163.5	11.1
20°-30°	237.1	16.1
30°-40°	270.2	18.4
40°-50°	263.3	17.9
50°-60°	221.6	15.1
60°-70°	155.3	10.6
70°-80°	79.6	5.4
80°-90°	19.9	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°	459.2	31.3
0°-40°	729.3	49.6
0°-60°	1214.2	82.7
0°-90°	1469.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1469.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	622	622	622	622	622	
5°	621	619	614	618	617	59
15°	590	588	578	577	573	166
25°	535	528	511	505	500	246
35°	461	450	429	415	409	289
45°	378	364	338	319	312	291
55°	286	271	245	224	217	256
65°	194	178	153	134	127	192
75°	103	89	70	59	56	109
85°	26	17	15	14	14	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	621.8	621.8	621.8	621.8	621.8
2.5°	623.2	621.8	617.1	621.8	621.3
5°	620.8	619.0	613.8	618.4	617.4
7.5°	616.1	614.2	608.1	611.9	611.0
10°	609.1	607.7	601.1	602.5	601.1
12.5°	601.1	599.1	589.7	590.7	588.4
15°	590.4	587.5	577.5	577.1	572.9
17.5°	579.0	574.8	563.0	560.7	557.4
20°	565.4	560.7	545.7	543.3	539.1
22.5°	550.4	545.7	529.8	524.6	521.2
25°	535.3	528.2	510.9	504.8	499.7
27.5°	518.5	509.9	491.7	483.7	478.6
30°	499.7	490.8	471.0	460.3	456.0
32.5°	481.3	470.6	450.4	438.2	432.6
35°	461.2	449.9	428.8	415.2	408.6
37.5°	441.9	428.2	406.6	390.8	384.1
40°	421.3	407.2	384.6	366.7	361.2
42.5°	399.6	385.0	361.5	344.7	335.7
45°	377.5	364.0	338.1	319.3	312.3
47.5°	354.5	340.5	314.6	295.4	287.4
50°	332.9	317.4	290.7	271.0	263.9
52.5°	309.4	293.6	268.6	247.0	239.9
55°	286.5	271.4	245.2	224.0	216.6
57.5°	263.0	247.0	221.7	201.0	194.4
60°	240.4	224.0	198.6	178.0	170.9
62.5°	216.6	201.0	175.2	156.4	149.3
65°	194.0	178.0	153.1	134.2	127.2
67.5°	171.3	155.5	131.5	113.7	108.1
70°	148.4	132.4	108.9	94.3	88.8
72.5°	125.9	110.4	88.8	75.6	72.4
75°	103.3	89.2	69.5	59.2	55.9
77.5°	80.2	69.0	52.5	44.7	41.8
80°	61.1	49.8	36.7	32.4	31.5
82.5°	42.2	32.4	24.5	22.9	22.6
85°	25.8	17.3	15.1	14.5	14.1
87.5°	10.9	7.5	7.1	7.1	6.5
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)