

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: P888334

Luminaire Tested: **DPT5-4F021-61V60-F-XX-UDD_6500K**

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: P888334
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: DPT5-4F021-61V60-F-XX-UDD_6500K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

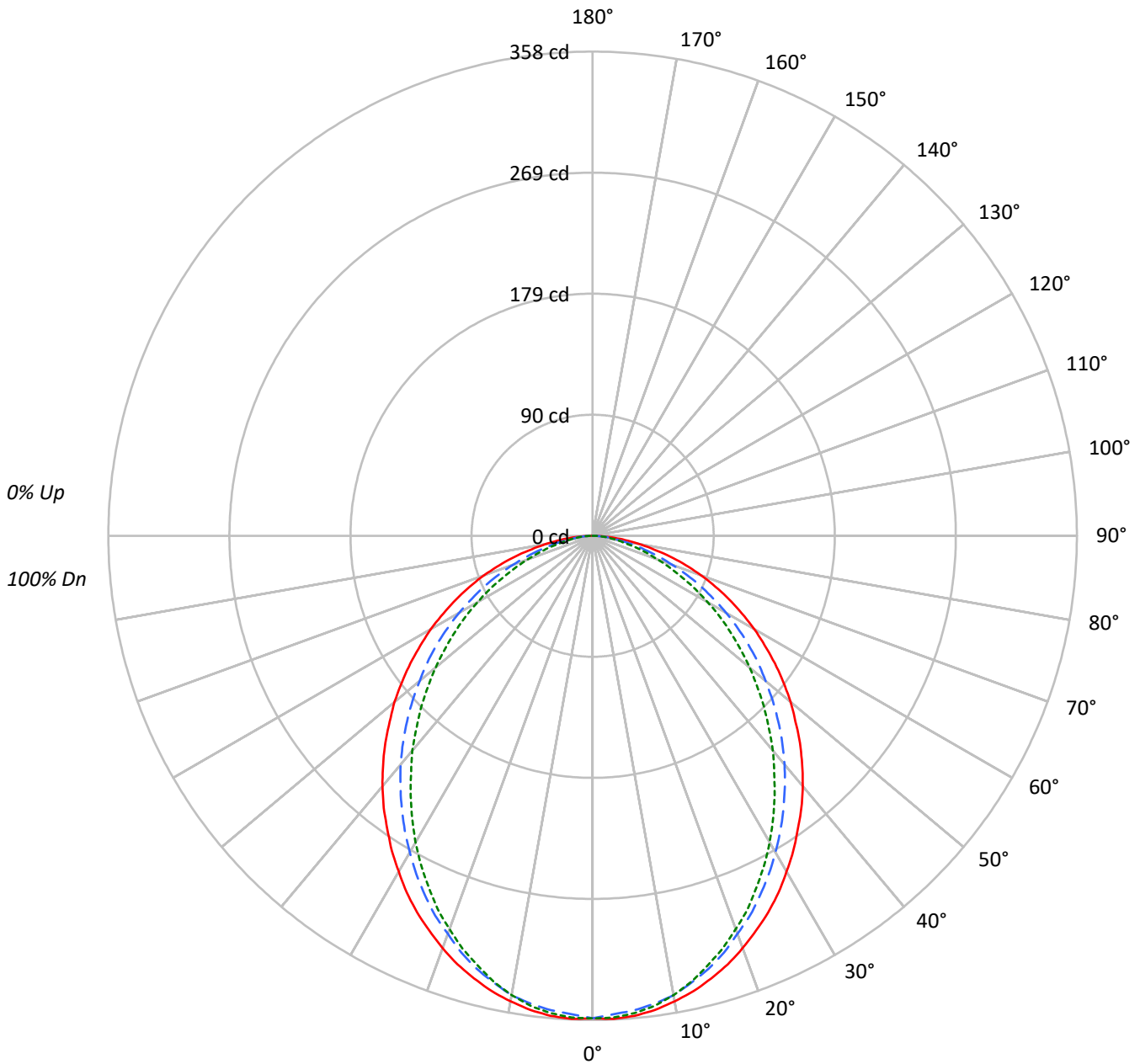
Lumens per Lamp: N/A
Luminaire Lumens: 842.9 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')
CIE Type: Direct

Input Watts (W): 8.2
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	30																			
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°	5971	5971	5971
5°	5985	5916	5951
10°	5939	5861	5861
15°	5869	5741	5696
20°	5777	5576	5510
25°	5672	5414	5294
30°	5540	5223	5057
35°	5405	5025	4790
40°	5280	4821	4528
45°	5128	4591	4241
50°	4975	4342	3944
55°	4796	4105	3626
60°	4619	3815	3283
65°	4407	3480	2890
70°	4169	3058	2490
75°	3834	2580	2075
80°	3373	2024	1744
85°	2842	1651	1555



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.6	4.0
10°-20°	93.8	11.1
20°-30°	136.1	16.1
30°-40°	155.0	18.4
40°-50°	151.1	17.9
50°-60°	127.2	15.1
60°-70°	89.1	10.6
70°-80°	45.7	5.4
80°-90°	11.4	1.3
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°	263.5	31.3
0°-40°	418.5	49.6
0°-60°	696.8	82.7
0°-90°	842.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	842.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	357	357	357	357	357	
5°	356	355	352	355	354	34
15°	339	337	331	331	329	96
25°	307	303	293	290	287	141
35°	265	258	246	238	234	166
45°	217	209	194	183	179	167
55°	164	156	141	129	124	147
65°	111	102	88	77	73	110
75°	59	51	40	34	32	63
85°	15	10	9	8	8	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	356.8	356.8	356.8	356.8	356.8
2.5°	357.6	356.8	354.1	356.8	356.5
5°	356.3	355.2	352.2	354.9	354.3
7.5°	353.6	352.5	349.0	351.1	350.6
10°	349.5	348.7	344.9	345.8	344.9
12.5°	344.9	343.8	338.4	339.0	337.7
15°	338.8	337.1	331.4	331.2	328.8
17.5°	332.3	329.9	323.1	321.8	319.9
20°	324.4	321.8	313.1	311.8	309.4
22.5°	315.8	313.1	304.0	301.0	299.1
25°	307.2	303.1	293.2	289.7	286.7
27.5°	297.5	292.6	282.1	277.6	274.6
30°	286.7	281.6	270.3	264.1	261.7
32.5°	276.2	270.0	258.4	251.4	248.2
35°	264.6	258.2	246.0	238.2	234.5
37.5°	253.6	245.7	233.4	224.3	220.4
40°	241.7	233.7	220.7	210.5	207.3
42.5°	229.3	221.0	207.5	197.8	192.7
45°	216.7	208.9	194.0	183.3	179.2
47.5°	203.4	195.4	180.5	169.5	164.9
50°	191.1	182.2	166.8	155.5	151.5
52.5°	177.6	168.5	154.1	141.7	137.7
55°	164.4	155.8	140.7	128.6	124.3
57.5°	150.9	141.7	127.2	115.3	111.6
60°	138.0	128.6	114.0	102.1	98.1
62.5°	124.3	115.3	100.5	89.7	85.7
65°	111.3	102.1	87.9	77.0	73.0
67.5°	98.3	89.2	75.4	65.2	62.0
70°	85.2	76.0	62.5	54.1	50.9
72.5°	72.2	63.3	50.9	43.4	41.5
75°	59.3	51.2	39.9	34.0	32.1
77.5°	46.0	39.6	30.1	25.6	24.0
80°	35.0	28.6	21.0	18.6	18.1
82.5°	24.2	18.6	14.0	13.1	12.9
85°	14.8	9.9	8.6	8.3	8.1
87.5°	6.2	4.3	4.0	4.0	3.7
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)