

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: P888345

Luminaire Tested: **DPT5-4F021-85V60-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: P888345
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: DPT5-4F021-85V60-F-XX-UDD_6500K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

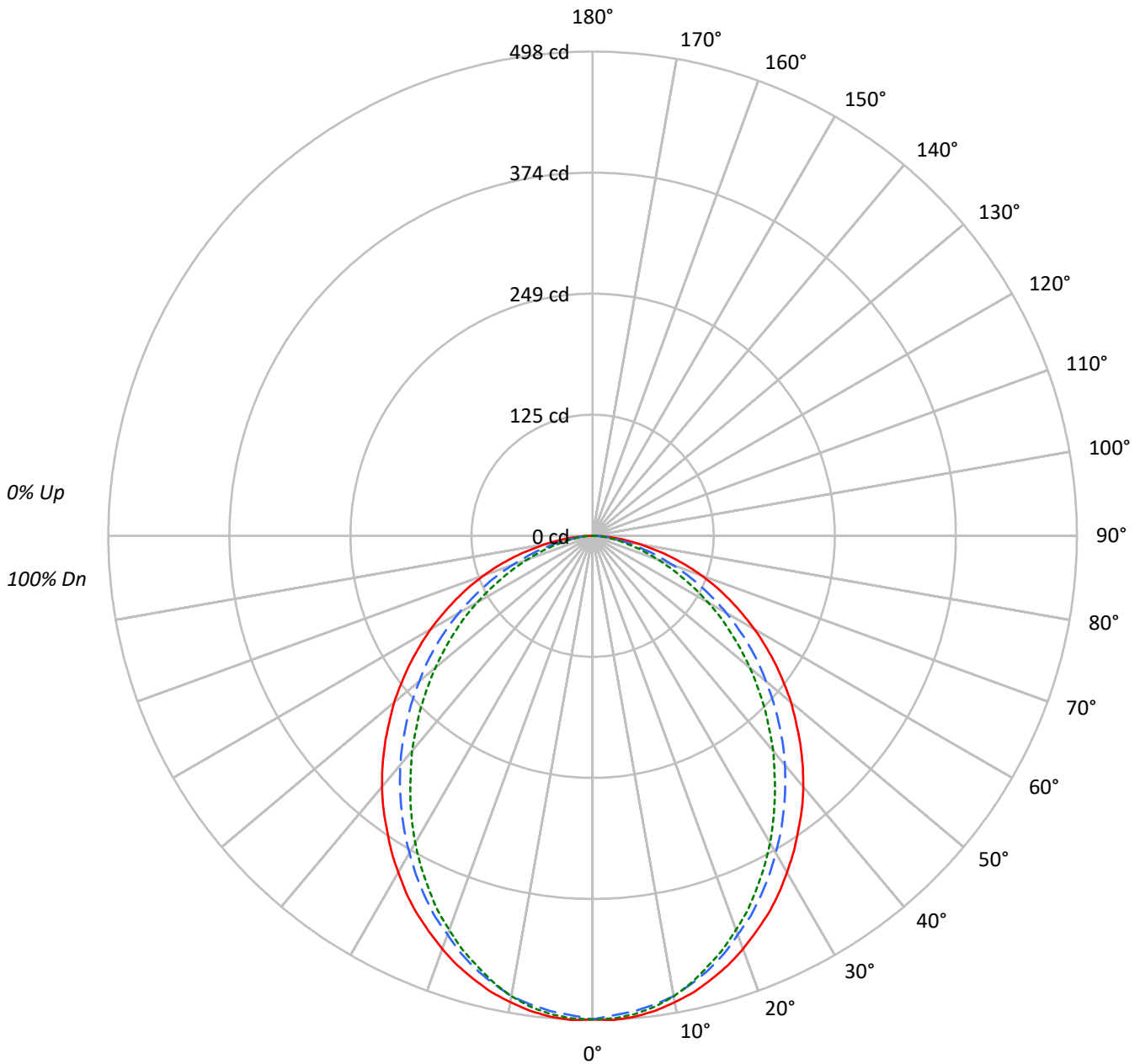
Lumens per Lamp: N/A
Luminaire Lumens: 1175.0 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')
CIE Type: Direct

Input Watts (W): 11.4
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°	8323	8323	8323
5°	8342	8246	8296
10°	8278	8170	8170
15°	8180	8004	7940
20°	8053	7773	7679
25°	7906	7546	7380
30°	7723	7279	7049
35°	7536	7005	6676
40°	7362	6719	6311
45°	7147	6399	5912
50°	6933	6053	5496
55°	6687	5721	5053
60°	6436	5318	4575
65°	6145	4850	4027
70°	5808	4261	3474
75°	5340	3595	2890
80°	4703	2824	2428
85°	3955	2323	2170



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	4.0
10°-20°	130.8	11.1
20°-30°	189.7	16.1
30°-40°	216.1	18.4
40°-50°	210.6	17.9
50°-60°	177.2	15.1
60°-70°	124.2	10.6
70°-80°	63.7	5.4
80°-90°	15.9	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°	367.3	31.3
0°-40°	583.4	49.6
0°-60°	971.2	82.7
0°-90°	1175.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1175.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	497	497	497	497	497	
5°	497	495	491	495	494	47
15°	472	470	462	462	458	133
25°	428	422	409	404	400	197
35°	369	360	343	332	327	231
45°	302	291	270	255	250	233
55°	229	217	196	179	173	205
65°	155	142	122	107	102	154
75°	83	71	56	47	45	87
85°	21	14	12	12	11	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	497.4	497.4	497.4	497.4	497.4
2.5°	498.5	497.4	493.6	497.4	496.9
5°	496.6	495.1	490.9	494.6	493.9
7.5°	492.8	491.3	486.4	489.4	488.7
10°	487.2	486.1	480.8	482.0	480.8
12.5°	480.8	479.2	471.7	472.5	470.7
15°	472.2	469.9	462.0	461.6	458.3
17.5°	463.1	459.8	450.3	448.5	445.9
20°	452.2	448.5	436.5	434.6	431.2
22.5°	440.2	436.5	423.8	419.6	416.9
25°	428.2	422.5	408.7	403.8	399.7
27.5°	414.7	407.9	393.3	386.9	382.8
30°	399.7	392.6	376.7	368.2	364.8
32.5°	385.0	376.4	360.2	350.5	346.0
35°	368.9	359.9	342.9	332.1	326.8
37.5°	353.5	342.5	325.3	312.6	307.2
40°	337.0	325.7	307.6	293.3	288.9
42.5°	319.6	308.0	289.2	275.7	268.5
45°	302.0	291.2	270.4	255.4	249.8
47.5°	283.5	272.4	251.6	236.3	229.9
50°	266.3	253.9	232.5	216.8	211.1
52.5°	247.5	234.8	214.8	197.5	191.9
55°	229.2	217.1	196.1	179.2	173.2
57.5°	210.4	197.5	177.3	160.7	155.5
60°	192.3	179.2	158.9	142.3	136.7
62.5°	173.2	160.7	140.1	125.1	119.4
65°	155.2	142.3	122.5	107.4	101.7
67.5°	137.1	124.4	105.1	90.9	86.5
70°	118.7	105.9	87.1	75.5	71.0
72.5°	100.7	88.3	71.0	60.5	57.9
75°	82.6	71.3	55.6	47.4	44.7
77.5°	64.2	55.2	42.0	35.7	33.4
80°	48.8	39.9	29.3	25.9	25.2
82.5°	33.8	25.9	19.6	18.3	18.0
85°	20.6	13.9	12.1	11.6	11.3
87.5°	8.7	6.0	5.6	5.6	5.2
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)