

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: P888344

Luminaire Tested: **DPT5-4F021-85V60-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: P888344
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_5000K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

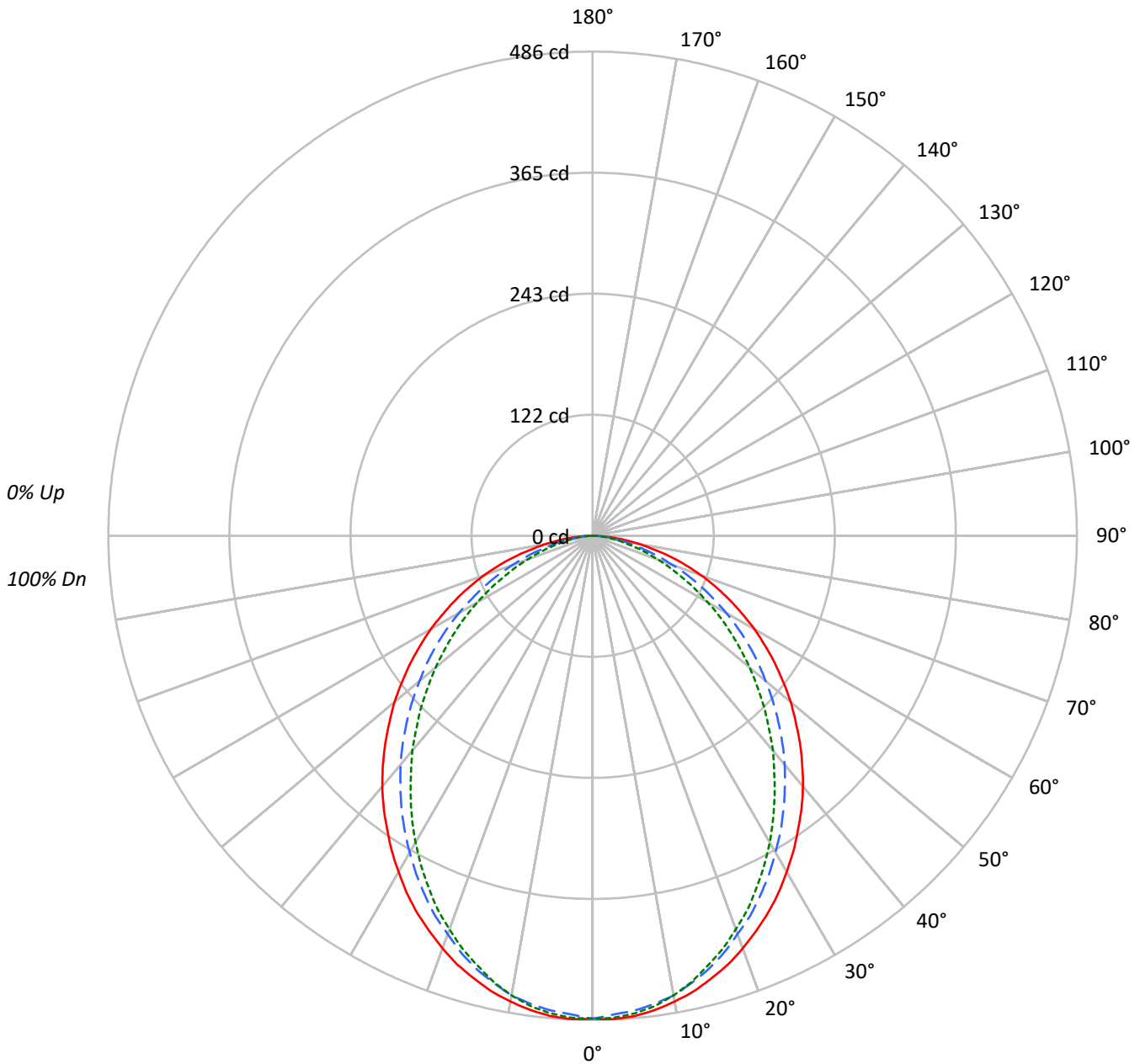
Lumens per Lamp: N/A
Luminaire Lumens: 1145.0 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')
CIE Type: Direct

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°	8111	8111	8111
5°	8128	8036	8085
10°	8066	7961	7961
15°	7971	7799	7737
20°	7848	7574	7483
25°	7703	7352	7192
30°	7526	7093	6867
35°	7344	6827	6504
40°	7174	6549	6149
45°	6965	6236	5760
50°	6756	5899	5355
55°	6515	5575	4925
60°	6272	5181	4458
65°	5987	4728	3924
70°	5661	4154	3386
75°	5205	3504	2819
80°	4587	2756	2371
85°	3859	2246	2112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.6	4.0
10°-20°	127.5	11.1
20°-30°	184.8	16.1
30°-40°	210.6	18.4
40°-50°	205.2	17.9
50°-60°	172.7	15.1
60°-70°	121.0	10.6
70°-80°	62.1	5.4
80°-90°	15.5	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°	357.9	31.3
0°-40°	568.5	49.6
0°-60°	946.4	82.7
0°-90°	1145.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1145.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	485	485	485	485	485	
5°	484	482	478	482	481	46
15°	460	458	450	450	447	130
25°	417	412	398	394	390	192
35°	360	351	334	324	318	225
45°	294	284	264	249	243	227
55°	223	212	191	175	169	200
65°	151	139	119	105	99	150
75°	80	70	54	46	44	85
85°	20	14	12	11	11	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	484.7	484.7	484.7	484.7	484.7
2.5°	485.7	484.7	481.0	484.7	484.2
5°	483.9	482.5	478.4	482.0	481.3
7.5°	480.2	478.7	474.0	476.9	476.2
10°	474.7	473.7	468.5	469.6	468.5
12.5°	468.5	467.0	459.7	460.4	458.7
15°	460.1	457.9	450.2	449.8	446.6
17.5°	451.3	448.1	438.8	437.1	434.5
20°	440.7	437.1	425.3	423.5	420.2
22.5°	429.0	425.3	413.0	408.9	406.2
25°	417.2	411.7	398.2	393.5	389.5
27.5°	404.1	397.5	383.2	377.0	373.0
30°	389.5	382.5	367.1	358.8	355.4
32.5°	375.1	366.8	351.0	341.5	337.2
35°	359.5	350.7	334.2	323.6	318.4
37.5°	344.4	333.8	316.9	304.6	299.4
40°	328.4	317.4	299.8	285.9	281.5
42.5°	311.4	300.1	281.8	268.7	261.7
45°	294.3	283.7	263.5	248.9	243.4
47.5°	276.3	265.4	245.2	230.2	224.0
50°	259.5	247.4	226.6	211.2	205.7
52.5°	241.2	228.8	209.3	192.5	187.0
55°	223.3	211.6	191.1	174.6	168.8
57.5°	205.0	192.5	172.8	156.6	151.5
60°	187.4	174.6	154.8	138.7	133.2
62.5°	168.8	156.6	136.5	121.9	116.4
65°	151.2	138.7	119.4	104.6	99.1
67.5°	133.6	121.2	102.5	88.6	84.3
70°	115.7	103.2	84.9	73.5	69.2
72.5°	98.1	86.0	69.2	58.9	56.4
75°	80.5	69.5	54.2	46.2	43.6
77.5°	62.5	53.8	40.9	34.8	32.6
80°	47.6	38.8	28.6	25.3	24.6
82.5°	32.9	25.3	19.1	17.9	17.6
85°	20.1	13.5	11.7	11.3	11.0
87.5°	8.5	5.8	5.5	5.5	5.1
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)