

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: P888312

Luminaire Tested: **DPT5-4F021-127V60-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: P888312
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: DPT5-4F021-127V60-F-XX-UDD_6500K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

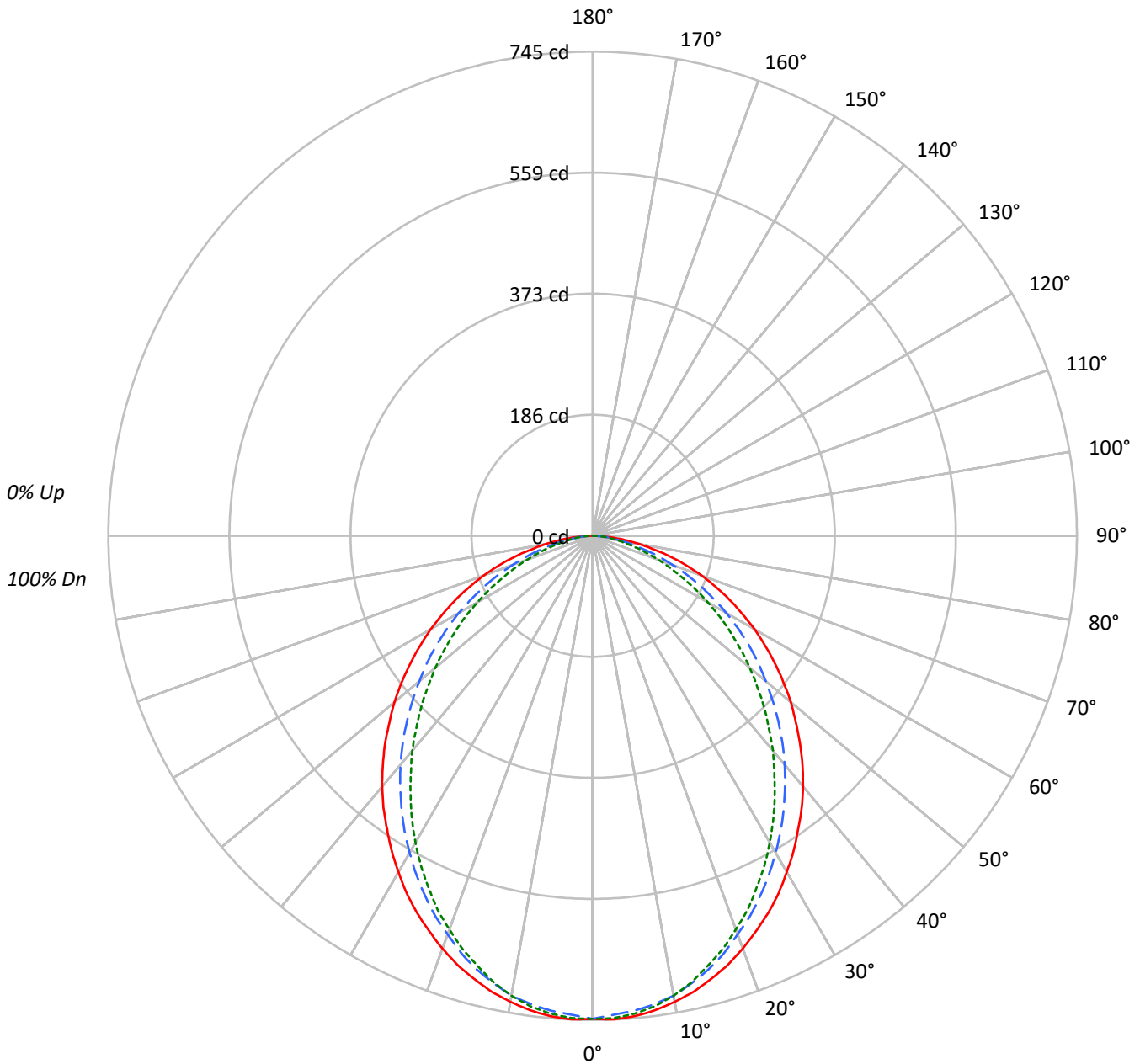
Lumens per Lamp: N/A
Luminaire Lumens: 1756.0 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')
CIE Type: Direct

Input Watts (W): 17
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°	12438	12438	12438
5°	12466	12324	12398
10°	12372	12209	12209
15°	12226	11961	11865
20°	12034	11616	11477
25°	11815	11276	11028
30°	11541	10879	10533
35°	11262	10469	9977
40°	11001	10042	9430
45°	10680	9563	8834
50°	10361	9046	8213
55°	9992	8551	7553
60°	9619	7945	6837
65°	9182	7250	6019
70°	8680	6370	5191
75°	7985	5373	4325
80°	7035	4221	3633
85°	5914	3456	3245



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	4.0
10°-20°	195.5	11.1
20°-30°	283.4	16.1
30°-40°	322.9	18.4
40°-50°	314.7	17.9
50°-60°	264.9	15.1
60°-70°	185.6	10.6
70°-80°	95.2	5.4
80°-90°	23.7	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°	548.9	31.3
0°-40°	871.8	49.6
0°-60°	1451.5	82.7
0°-90°	1756.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1756.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	743	743	743	743	743	
5°	742	740	734	739	738	70
15°	706	702	690	690	685	199
25°	640	631	611	603	597	295
35°	551	538	512	496	488	345
45°	451	435	404	382	373	348
55°	342	324	293	268	259	306
65°	232	213	183	160	152	230
75°	124	107	83	71	67	131
85°	31	21	18	17	17	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	743.3	743.3	743.3	743.3	743.3
2.5°	744.9	743.3	737.7	743.3	742.7
5°	742.1	739.9	733.7	739.2	738.1
7.5°	736.5	734.2	726.9	731.4	730.4
10°	728.1	726.4	718.5	720.3	718.5
12.5°	718.5	716.2	705.0	706.1	703.4
15°	705.7	702.3	690.4	689.9	684.9
17.5°	692.2	687.2	673.0	670.3	666.3
20°	675.8	670.3	652.3	649.5	644.5
22.5°	657.9	652.3	633.3	627.1	623.0
25°	639.9	631.4	610.7	603.4	597.3
27.5°	619.8	609.6	587.7	578.2	572.1
30°	597.3	586.7	563.0	550.2	545.1
32.5°	575.3	562.5	538.4	523.8	517.1
35°	551.3	537.8	512.5	496.3	488.4
37.5°	528.3	511.9	486.1	467.1	459.1
40°	503.6	486.7	459.7	438.4	431.7
42.5°	477.6	460.3	432.1	412.0	401.3
45°	451.3	435.2	404.1	381.7	373.3
47.5°	423.7	407.0	376.0	353.1	343.5
50°	398.0	379.4	347.5	323.9	315.5
52.5°	369.9	350.9	321.0	295.2	286.8
55°	342.5	324.5	293.1	267.8	258.9
57.5°	314.4	295.2	265.0	240.2	232.4
60°	287.4	267.8	237.4	212.7	204.3
62.5°	258.9	240.2	209.4	186.9	178.5
65°	231.9	212.7	183.1	160.5	152.0
67.5°	204.8	185.9	157.1	135.9	129.2
70°	177.4	158.3	130.2	112.8	106.1
72.5°	150.5	131.9	106.1	90.4	86.5
75°	123.5	106.6	83.1	70.8	66.9
77.5°	95.9	82.5	62.8	53.4	50.0
80°	73.0	59.6	43.8	38.7	37.7
82.5°	50.5	38.7	29.3	27.4	27.0
85°	30.8	20.7	18.0	17.4	16.9
87.5°	13.0	9.0	8.4	8.4	7.8
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)