

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: P888350

Luminaire Tested: **DPT5-4F029-109V60-F-XX-UDD_2700K**

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: P888350
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: DPT5-4F029-109V60-F-XX-UDD_2700K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

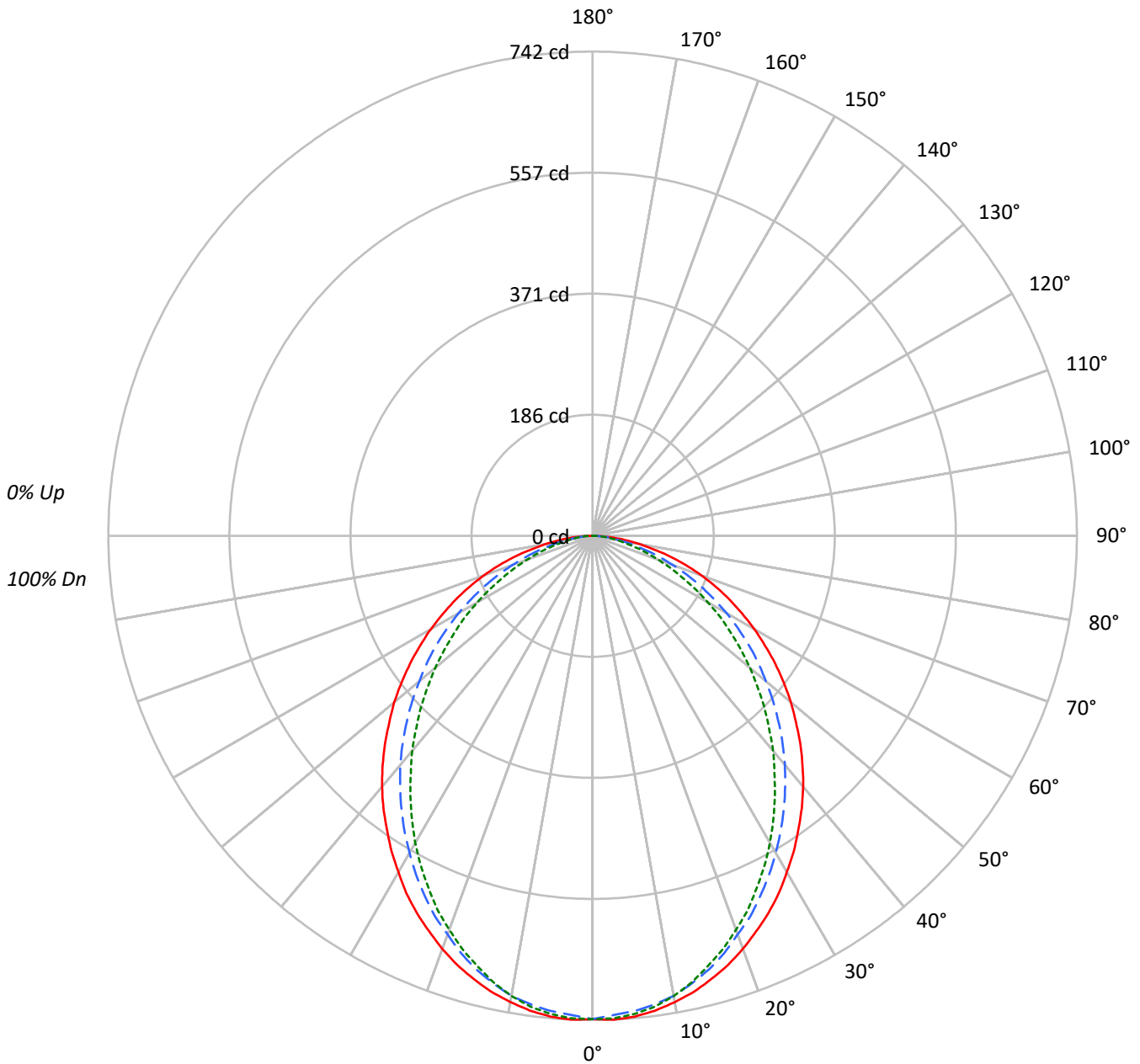
Lumens per Lamp: N/A
Luminaire Lumens: 1750.0 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')
CIE Type: Direct

Input Watts (W): 20.6
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°	8821	8821	8821
5°	8842	8742	8794
10°	8775	8659	8659
15°	8671	8483	8415
20°	8536	8238	8140
25°	8380	7997	7821
30°	8185	7716	7471
35°	7988	7426	7076
40°	7803	7124	6688
45°	7576	6783	6265
50°	7348	6416	5825
55°	7087	6065	5357
60°	6822	5636	4850
65°	6513	5140	4269
70°	6156	4516	3681
75°	5664	3810	3065
80°	4986	2997	2579
85°	4195	2460	2296



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.7	4.0
10°-20°	194.8	11.1
20°-30°	282.5	16.1
30°-40°	321.8	18.4
40°-50°	313.7	17.9
50°-60°	264.0	15.1
60°-70°	185.0	10.6
70°-80°	94.8	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°	547.0	31.3
0°-40°	868.8	49.6
0°-60°	1446.5	82.7
0°-90°	1750.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1750.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	741	741	741	741	741	
5°	740	737	731	737	736	70
15°	703	700	688	688	682	198
25°	638	629	609	601	595	293
35°	549	536	511	495	487	344
45°	450	434	403	380	372	347
55°	341	323	292	267	258	305
65°	231	212	182	160	152	229
75°	123	106	83	71	67	130
85°	31	21	18	17	17	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	740.7	740.7	740.7	740.7	740.7
2.5°	742.4	740.7	735.1	740.7	740.1
5°	739.6	737.4	731.2	736.7	735.6
7.5°	734.0	731.7	724.4	728.9	727.9
10°	725.6	723.9	716.0	717.8	716.0
12.5°	716.0	713.8	702.6	703.7	701.0
15°	703.3	699.9	688.0	687.5	682.5
17.5°	689.8	684.8	670.7	668.0	664.1
20°	673.5	668.0	650.0	647.2	642.3
22.5°	655.6	650.0	631.2	624.9	620.9
25°	637.7	629.3	608.6	601.4	595.2
27.5°	617.7	607.5	585.7	576.3	570.1
30°	595.2	584.7	561.1	548.3	543.3
32.5°	573.4	560.6	536.5	522.0	515.3
35°	549.4	536.0	510.8	494.6	486.7
37.5°	526.4	510.2	484.4	465.5	457.5
40°	501.9	485.0	458.2	436.9	430.2
42.5°	476.0	458.7	430.7	410.6	399.9
45°	449.8	433.7	402.7	380.4	372.0
47.5°	422.3	405.7	374.7	351.9	342.4
50°	396.6	378.2	346.3	322.8	314.4
52.5°	368.6	349.7	319.9	294.2	285.8
55°	341.3	323.4	292.1	266.9	258.0
57.5°	313.3	294.2	264.1	239.4	231.6
60°	286.4	266.9	236.6	212.0	203.6
62.5°	258.0	239.4	208.7	186.3	177.9
65°	231.1	212.0	182.4	159.9	151.5
67.5°	204.1	185.2	156.6	135.4	128.8
70°	176.8	157.7	129.7	112.4	105.7
72.5°	150.0	131.5	105.7	90.1	86.2
75°	123.1	106.3	82.8	70.6	66.6
77.5°	95.6	82.2	62.6	53.2	49.8
80°	72.7	59.4	43.7	38.6	37.6
82.5°	50.3	38.6	29.2	27.3	26.9
85°	30.7	20.7	18.0	17.3	16.8
87.5°	13.0	8.9	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)