

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: P888075

Luminaire Tested: **DPT5-4F029-109V60-A-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: P888075
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-A-XX-UDD_2700K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

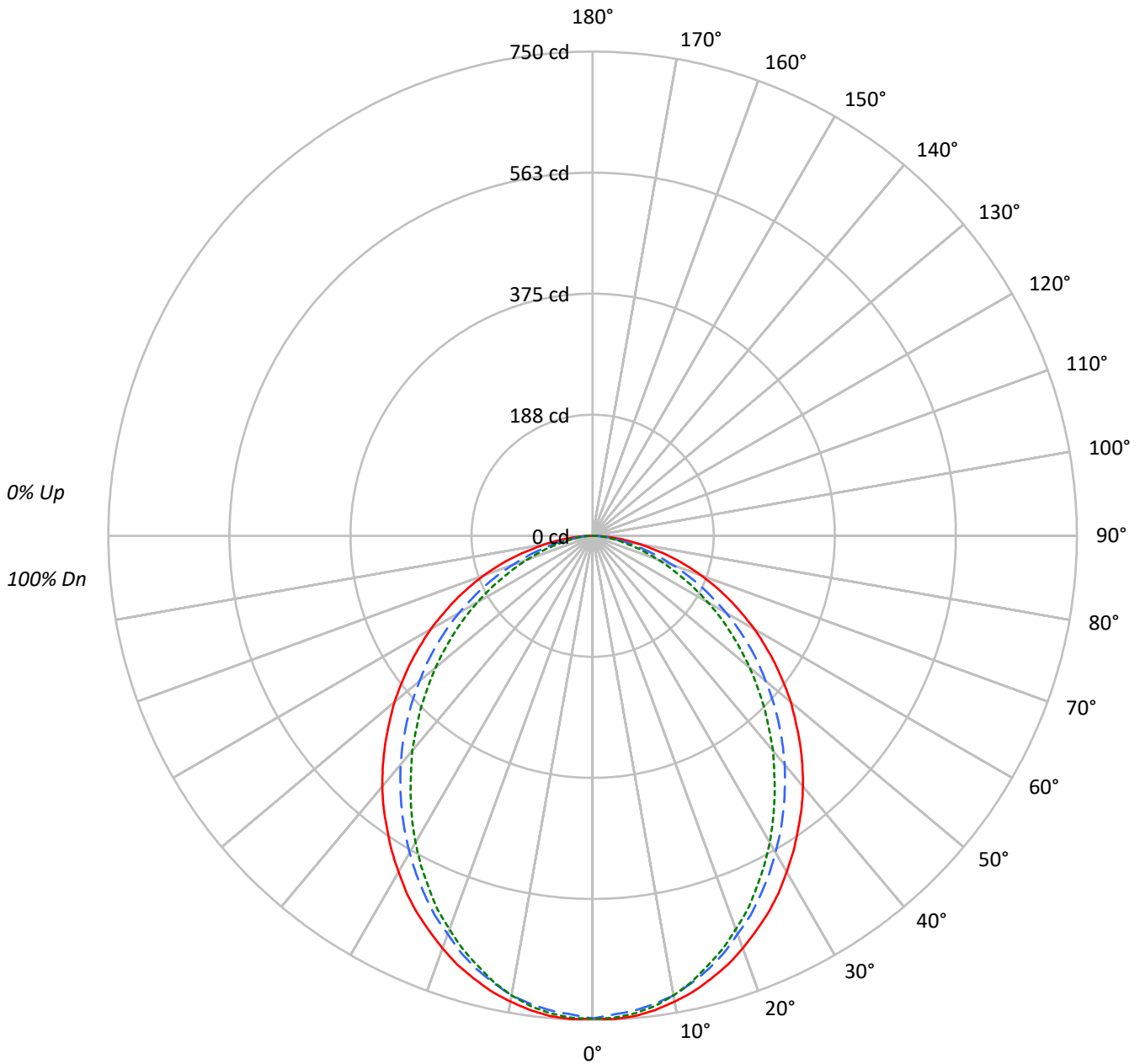
Lumens per Lamp: N/A
Luminaire Lumens: 1767.0 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')
CIE Type: Direct

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°	8907	8907	8907
5°	8928	8826	8879
10°	8860	8743	8743
15°	8755	8565	8498
20°	8618	8319	8219
25°	8461	8075	7898
30°	8265	7792	7543
35°	8065	7498	7144
40°	7878	7192	6754
45°	7648	6850	6326
50°	7420	6479	5883
55°	7155	6125	5409
60°	6889	5690	4897
65°	6575	5191	4312
70°	6216	4562	3719
75°	5720	3847	3097
80°	5041	3025	2599
85°	4236	2473	2323



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	4.0
10°-20°	196.7	11.1
20°-30°	285.2	16.1
30°-40°	325.0	18.4
40°-50°	316.7	17.9
50°-60°	266.6	15.1
60°-70°	186.8	10.6
70°-80°	95.8	5.4
80°-90°	23.9	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°	552.3	31.3
0°-40°	877.3	49.6
0°-60°	1460.6	82.7
0°-90°	1767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1767.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	748	748	748	748	748	
5°	747	745	738	744	743	71
15°	710	707	695	694	689	200
25°	644	635	614	607	601	296
35°	555	541	516	499	491	347
45°	454	438	407	384	376	350
55°	345	326	295	270	260	308
65°	233	214	184	162	153	231
75°	124	107	84	71	67	131
85°	31	21	18	18	17	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	747.9	747.9	747.9	747.9	747.9
2.5°	749.6	747.9	742.3	747.9	747.3
5°	746.8	744.6	738.3	743.8	742.7
7.5°	741.1	738.8	731.5	736.0	734.9
10°	732.6	731.0	723.0	724.8	723.0
12.5°	723.0	720.7	709.4	710.5	707.8
15°	710.1	706.7	694.7	694.2	689.2
17.5°	696.5	691.5	677.2	674.5	670.5
20°	680.0	674.5	656.4	653.5	648.5
22.5°	662.0	656.4	637.3	631.0	626.9
25°	643.9	635.4	614.5	607.2	601.0
27.5°	623.7	613.4	591.4	581.9	575.7
30°	601.0	590.3	566.6	553.7	548.5
32.5°	578.9	566.0	541.7	527.1	520.3
35°	554.7	541.2	515.7	499.4	491.4
37.5°	531.6	515.1	489.1	470.1	462.0
40°	506.7	489.8	462.6	441.1	434.4
42.5°	480.6	463.1	434.8	414.6	403.8
45°	454.1	437.9	406.7	384.1	375.6
47.5°	426.4	409.6	378.4	355.3	345.7
50°	400.5	381.8	349.7	326.0	317.5
52.5°	372.2	353.1	323.0	297.1	288.6
55°	344.6	326.5	295.0	269.5	260.5
57.5°	316.3	297.1	266.7	241.7	233.9
60°	289.2	269.5	238.9	214.1	205.6
62.5°	260.5	241.7	210.7	188.1	179.6
65°	233.3	214.1	184.2	161.5	153.0
67.5°	206.1	187.0	158.1	136.7	130.0
70°	178.5	159.3	131.0	113.5	106.8
72.5°	151.4	132.8	106.8	91.0	87.1
75°	124.3	107.3	83.6	71.3	67.3
77.5°	96.5	83.0	63.2	53.8	50.3
80°	73.5	59.9	44.1	39.0	37.9
82.5°	50.8	39.0	29.4	27.6	27.1
85°	31.0	20.9	18.1	17.5	17.0
87.5°	13.1	9.0	8.5	8.5	7.9
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)