

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: P888365

Luminaire Tested: **DPT5-4F029-127V60-F-XX-UDD_4500K**

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: P888365
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: DPT5-4F029-127V60-F-XX-UDD_4500K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

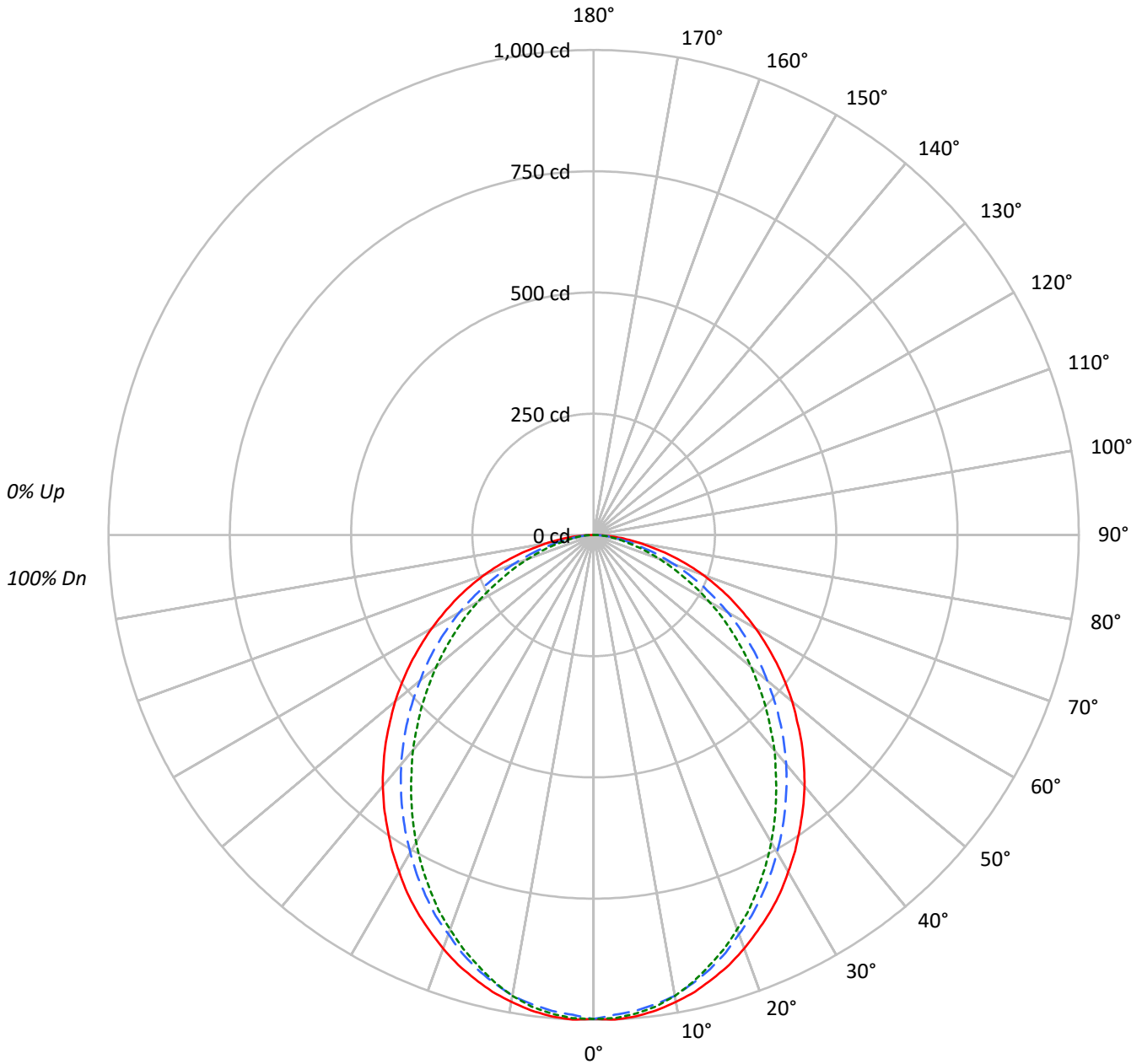
Lumens per Lamp: N/A
Luminaire Lumens: 2358.0 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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

TEST NUMBER: P888365

CATALOG NUMBER: DPT5-4F029-127V60-F-XX-UDD_4500K

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°	11887	11887	11887
5°	11914	11778	11849
10°	11824	11668	11668
15°	11684	11431	11340
20°	11502	11101	10968
25°	11291	10777	10540
30°	11030	10398	10066
35°	10763	10006	9535
40°	10513	9597	9013
45°	10207	9141	8443
50°	9901	8645	7850
55°	9549	8173	7217
60°	9192	7594	6534
65°	8775	6927	5752
70°	8298	6087	4962
75°	7629	5135	4132
80°	6721	4040	3470
85°	5657	3307	3102



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	4.0
10°-20°	262.5	11.1
20°-30°	380.6	16.1
30°-40°	433.6	18.4
40°-50°	422.7	17.9
50°-60°	355.7	15.1
60°-70°	249.3	10.6
70°-80°	127.8	5.4
80°-90°	31.9	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°	737.1	31.3
0°-40°	1170.7	49.6
0°-60°	1949.1	82.7
0°-90°	2358.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2358.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	998	998	998	998	998	
5°	997	994	985	993	991	95
15°	948	943	927	926	920	267
25°	859	848	820	810	802	395
35°	740	722	688	666	656	464
45°	606	584	543	513	501	467
55°	460	436	394	360	348	411
65°	311	286	246	216	204	308
75°	166	143	112	95	90	175
85°	41	28	24	23	23	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	998.1	998.1	998.1	998.1	998.1
2.5°	1000.3	998.1	990.5	998.1	997.3
5°	996.6	993.6	985.2	992.6	991.1
7.5°	989.0	985.9	976.1	982.2	980.8
10°	977.7	975.4	964.8	967.2	964.8
12.5°	964.8	961.7	946.6	948.2	944.5
15°	947.6	943.0	927.1	926.4	919.7
17.5°	929.4	922.7	903.7	900.1	894.8
20°	907.5	900.1	875.9	872.1	865.4
22.5°	883.4	875.9	850.4	842.0	836.6
25°	859.2	847.9	820.1	810.3	802.1
27.5°	832.3	818.6	789.2	776.5	768.2
30°	802.1	787.8	756.1	738.9	732.0
32.5°	772.6	755.4	722.9	703.3	694.4
35°	740.3	722.2	688.2	666.4	655.8
37.5°	709.3	687.4	652.7	627.3	616.5
40°	676.2	653.6	617.3	588.7	579.7
42.5°	641.4	618.0	580.3	553.3	538.9
45°	606.0	584.3	542.7	512.6	501.3
47.5°	569.0	546.6	504.9	474.2	461.3
50°	534.4	509.5	466.6	435.0	423.7
52.5°	496.7	471.2	431.1	396.4	385.1
55°	459.9	435.7	393.6	359.6	347.6
57.5°	422.1	396.4	355.9	322.6	312.1
60°	385.9	359.6	318.8	285.7	274.3
62.5°	347.6	322.6	281.2	251.0	239.7
65°	311.4	285.7	245.8	215.5	204.1
67.5°	275.0	249.6	211.0	182.5	173.5
70°	238.3	212.5	174.8	151.4	142.5
72.5°	202.1	177.2	142.5	121.4	116.2
75°	165.8	143.2	111.6	95.1	89.8
77.5°	128.8	110.7	84.3	71.7	67.1
80°	98.0	80.0	58.9	52.0	50.6
82.5°	67.8	52.0	39.3	36.8	36.2
85°	41.4	27.8	24.2	23.4	22.7
87.5°	17.5	12.0	11.3	11.3	10.5
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)