

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: P888358

Luminaire Tested: **DPT5-4F029-127S30-F-XX-UDD**

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: P888358
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: DPT5-4F029-127S30-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

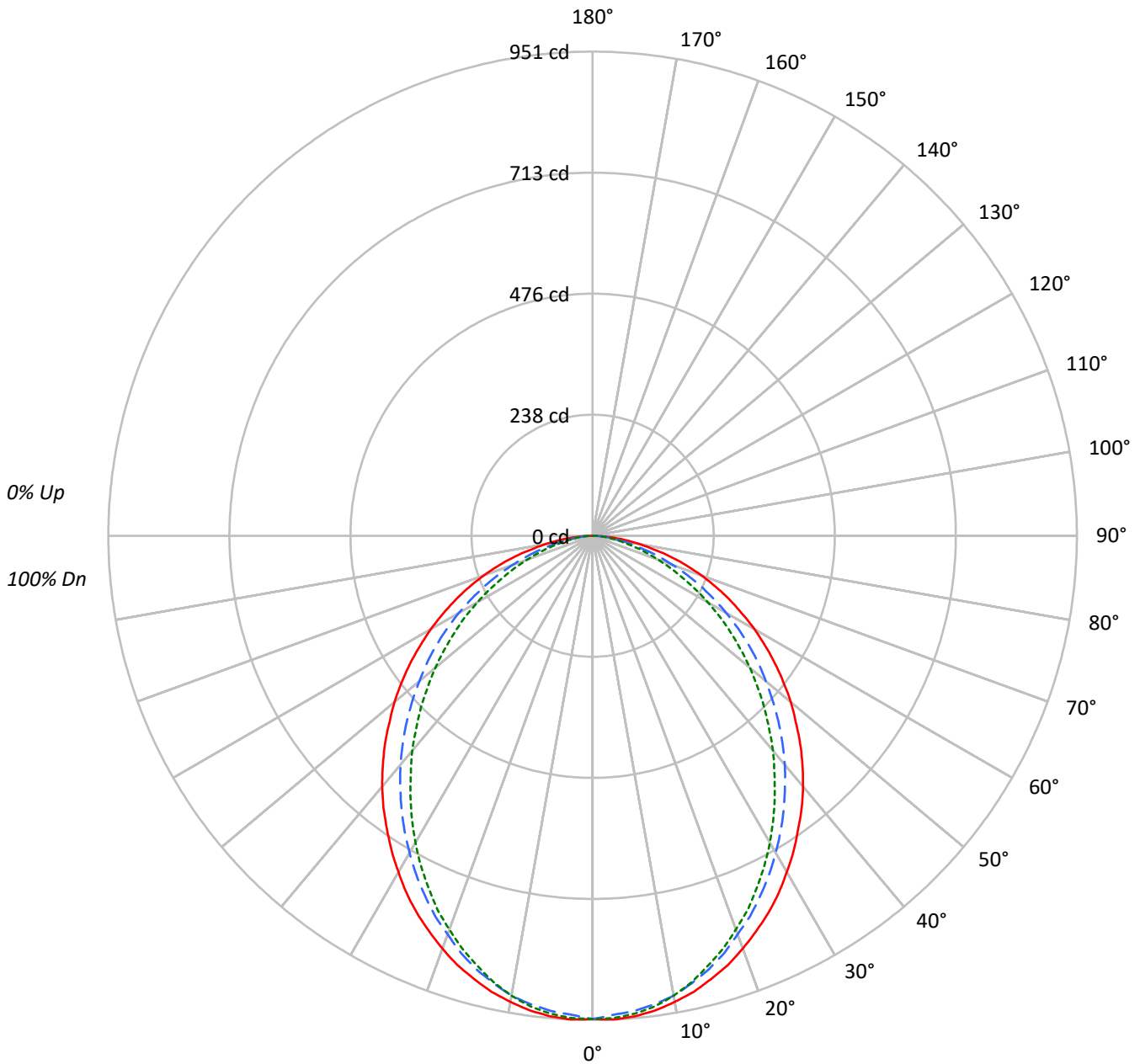
Lumens per Lamp: N/A
Luminaire Lumens: 2242.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')
CIE Type: Direct

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

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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°	11302	11302	11302
5°	11327	11200	11265
10°	11242	11094	11094
15°	11109	10869	10781
20°	10935	10555	10428
25°	10736	10246	10021
30°	10487	9886	9571
35°	10233	9514	9065
40°	9995	9126	8569
45°	9705	8691	8027
50°	9414	8221	7463
55°	9080	7772	6862
60°	8739	7220	6212
65°	8344	6586	5470
70°	7887	5787	4718
75°	7257	4882	3930
80°	6392	3841	3299
85°	5384	3143	2938



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	4.0
10°-20°	249.6	11.1
20°-30°	361.9	16.1
30°-40°	412.3	18.4
40°-50°	401.9	17.9
50°-60°	338.2	15.1
60°-70°	237.0	10.6
70°-80°	121.5	5.4
80°-90°	30.3	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°	700.8	31.3
0°-40°	1113.1	49.6
0°-60°	1853.2	82.7
0°-90°	2242.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2242.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	949	949	949	949	949	
5°	948	945	937	944	942	90
15°	901	897	882	881	874	254
25°	817	806	780	770	763	376
35°	704	687	654	634	624	441
45°	576	556	516	487	477	444
55°	437	414	374	342	330	391
65°	296	272	234	205	194	293
75°	158	136	106	90	85	167
85°	39	26	23	22	22	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	949.0	949.0	949.0	949.0	949.0
2.5°	951.1	949.0	941.8	949.0	948.2
5°	947.5	944.7	936.8	943.8	942.3
7.5°	940.4	937.4	928.1	933.8	932.5
10°	929.6	927.5	917.4	919.6	917.4
12.5°	917.4	914.4	900.1	901.5	898.1
15°	901.0	896.6	881.5	880.8	874.4
17.5°	883.7	877.3	859.3	855.8	850.7
20°	862.8	855.8	832.8	829.2	822.8
22.5°	840.0	832.8	808.6	800.6	795.4
25°	817.0	806.2	779.7	770.4	762.6
27.5°	791.3	778.3	750.4	738.3	730.4
30°	762.6	749.0	718.9	702.5	696.0
32.5°	734.5	718.2	687.3	668.7	660.2
35°	703.8	686.7	654.4	633.6	623.5
37.5°	674.5	653.6	620.6	596.4	586.2
40°	642.9	621.4	587.0	559.7	551.2
42.5°	609.8	587.6	551.7	526.1	512.4
45°	576.2	555.6	516.0	487.4	476.6
47.5°	541.0	519.7	480.1	450.8	438.6
50°	508.1	484.5	443.7	413.6	402.8
52.5°	472.2	448.0	409.9	376.9	366.1
55°	437.3	414.3	374.3	341.9	330.5
57.5°	401.4	376.9	338.4	306.7	296.7
60°	366.9	341.9	303.1	271.6	260.8
62.5°	330.5	306.7	267.4	238.6	227.9
65°	296.1	271.6	233.7	204.9	194.1
67.5°	261.5	237.3	200.6	173.5	165.0
70°	226.5	202.1	166.2	144.0	135.5
72.5°	192.1	168.4	135.5	115.4	110.5
75°	157.7	136.1	106.1	90.4	85.4
77.5°	122.4	105.3	80.2	68.2	63.8
80°	93.2	76.0	56.0	49.5	48.1
82.5°	64.5	49.5	37.4	35.0	34.4
85°	39.4	26.5	23.0	22.2	21.5
87.5°	16.6	11.4	10.8	10.8	10.0
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)