

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: P888308

Luminaire Tested: **DPT5-4F021-127V60-F-XX-UDD_3500K**

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: P888308
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_3500K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

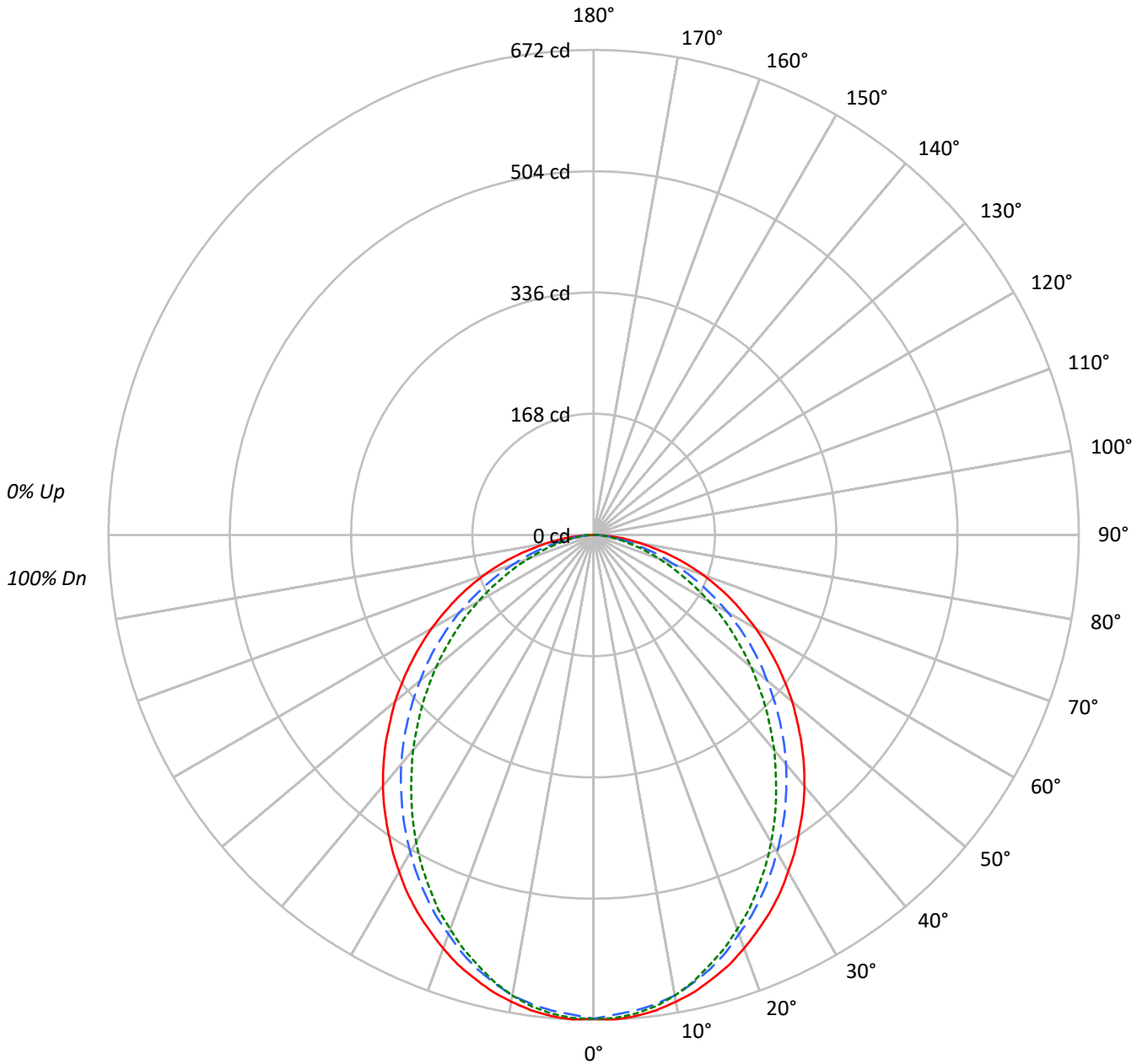
Lumens per Lamp: N/A
Luminaire Lumens: 1584.0 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')
CIE Type: Direct

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°	11220	11220	11220
5°	11244	11117	11184
10°	11160	11012	11012
15°	11028	10789	10703
20°	10856	10478	10352
25°	10657	10172	9948
30°	10411	9814	9501
35°	10159	9444	8999
40°	9922	9059	8506
45°	9634	8626	7968
50°	9346	8159	7409
55°	9012	7714	6812
60°	8675	7169	6168
65°	8283	6537	5429
70°	7833	5744	4682
75°	7202	4849	3899
80°	6341	3806	3276
85°	5338	3110	2918



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	4.0
10°-20°	176.3	11.1
20°-30°	255.7	16.1
30°-40°	291.3	18.4
40°-50°	283.9	17.9
50°-60°	239.0	15.1
60°-70°	167.4	10.6
70°-80°	85.8	5.4
80°-90°	21.4	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°	495.1	31.3
0°-40°	786.4	49.6
0°-60°	1309.3	82.7
0°-90°	1584.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1584.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	670	670	670	670	670	
5°	669	668	662	667	666	63
15°	637	634	623	622	618	179
25°	577	570	551	544	539	266
35°	497	485	462	448	440	311
45°	407	392	364	344	337	314
55°	309	293	264	242	234	276
65°	209	192	165	145	137	207
75°	111	96	75	64	60	118
85°	28	19	16	16	15	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	670.5	670.5	670.5	670.5	670.5
2.5°	672.0	670.5	665.4	670.5	669.9
5°	669.4	667.5	661.8	666.8	665.8
7.5°	664.4	662.3	655.7	659.8	658.8
10°	656.8	655.3	648.1	649.7	648.1
12.5°	648.1	646.1	635.9	636.9	634.5
15°	636.6	633.5	622.8	622.3	617.8
17.5°	624.4	619.8	607.1	604.6	601.1
20°	609.6	604.6	588.4	585.8	581.3
22.5°	593.5	588.4	571.3	565.6	562.0
25°	577.2	569.6	550.9	544.3	538.8
27.5°	559.1	549.9	530.1	521.6	516.1
30°	538.8	529.2	507.9	496.3	491.7
32.5°	519.0	507.4	485.6	472.5	466.5
35°	497.3	485.2	462.3	447.7	440.5
37.5°	476.5	461.8	438.5	421.4	414.1
40°	454.2	439.0	414.7	395.4	389.4
42.5°	430.9	415.2	389.8	371.7	362.0
45°	407.1	392.5	364.5	344.3	336.7
47.5°	382.2	367.2	339.2	318.5	309.9
50°	359.0	342.3	313.4	292.2	284.6
52.5°	333.6	316.5	289.6	266.3	258.7
55°	308.9	292.7	264.4	241.6	233.5
57.5°	283.6	266.3	239.1	216.7	209.7
60°	259.2	241.6	214.2	191.9	184.3
62.5°	233.5	216.7	188.9	168.6	161.0
65°	209.2	191.9	165.1	144.7	137.1
67.5°	184.8	167.7	141.7	122.6	116.6
70°	160.1	142.8	117.4	101.7	95.7
72.5°	135.7	119.0	95.7	81.5	78.1
75°	111.4	96.2	75.0	63.9	60.3
77.5°	86.5	74.4	56.6	48.2	45.1
80°	65.8	53.7	39.5	34.9	34.0
82.5°	45.6	34.9	26.4	24.7	24.3
85°	27.8	18.7	16.2	15.7	15.2
87.5°	11.7	8.1	7.6	7.6	7.0
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)