

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: P888302

Luminaire Tested: **DPT5-4F021-127S27-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: P888302
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: DPT5-4F021-127S27-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

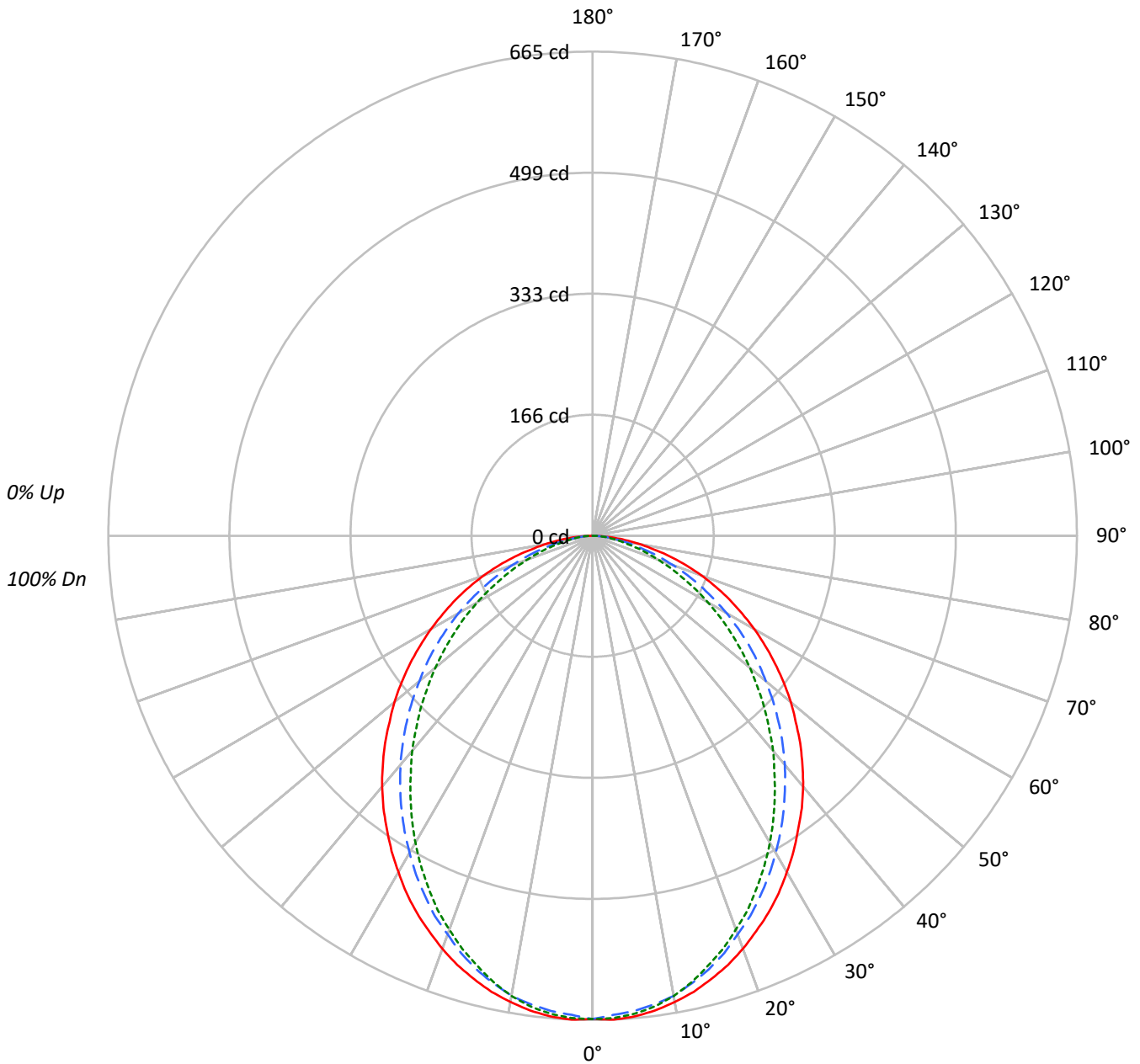
Lumens per Lamp: N/A
Luminaire Lumens: 1568.0 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')
CIE Type: Direct

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°	11106	11106	11106
5°	11132	11004	11071
10°	11046	10902	10902
15°	10916	10680	10594
20°	10747	10371	10248
25°	10550	10068	9847
30°	10305	9715	9406
35°	10055	9350	8909
40°	9823	8967	8421
45°	9537	8541	7888
50°	9252	8078	7334
55°	8922	7635	6745
60°	8588	7095	6104
65°	8200	6474	5377
70°	7750	5685	4633
75°	7131	4797	3860
80°	6283	3768	3248
85°	5280	3091	2899



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.5	4.0
10°-20°	174.6	11.1
20°-30°	253.1	16.1
30°-40°	288.4	18.4
40°-50°	281.1	17.9
50°-60°	236.5	15.1
60°-70°	165.8	10.6
70°-80°	85.0	5.4
80°-90°	21.2	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°	490.1	31.3
0°-40°	778.5	49.6
0°-60°	1296.1	82.7
0°-90°	1568.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1568.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	664	664	664	664	664	
5°	663	661	655	660	659	63
15°	630	627	616	616	612	178
25°	571	564	545	539	533	263
35°	492	480	458	443	436	308
45°	403	389	361	341	333	311
55°	306	290	262	239	231	273
65°	207	190	164	143	136	205
75°	110	95	74	63	60	117
85°	28	18	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°	663.7	663.7	663.7	663.7	663.7
2.5°	665.2	663.7	658.7	663.7	663.1
5°	662.7	660.7	655.1	660.1	659.1
7.5°	657.7	655.6	649.1	653.1	652.2
10°	650.1	648.6	641.6	643.2	641.6
12.5°	641.6	639.5	629.5	630.5	628.1
15°	630.1	627.1	616.5	616.0	611.5
17.5°	618.0	613.6	600.9	598.5	595.0
20°	603.5	598.5	582.4	579.9	575.5
22.5°	587.5	582.4	565.5	559.9	556.3
25°	571.4	563.8	545.3	538.8	533.3
27.5°	553.4	544.3	524.8	516.3	510.8
30°	533.3	523.9	502.8	491.3	486.8
32.5°	513.7	502.3	480.7	467.7	461.7
35°	492.2	480.3	457.7	443.2	436.1
37.5°	471.7	457.1	434.0	417.1	410.0
40°	449.7	434.6	410.5	391.5	385.5
42.5°	426.5	411.0	385.9	367.9	358.4
45°	403.0	388.6	360.9	340.9	333.3
47.5°	378.3	363.5	335.8	315.3	306.7
50°	355.4	338.8	310.3	289.3	281.7
52.5°	330.3	313.3	286.7	263.6	256.1
55°	305.8	289.7	261.7	239.1	231.2
57.5°	280.7	263.6	236.6	214.5	207.5
60°	256.6	239.1	212.0	190.0	182.4
62.5°	231.2	214.5	187.0	166.9	159.4
65°	207.1	190.0	163.5	143.3	135.8
67.5°	182.9	166.0	140.3	121.3	115.4
70°	158.4	141.3	116.2	100.7	94.7
72.5°	134.4	117.8	94.7	80.7	77.3
75°	110.3	95.2	74.2	63.2	59.7
77.5°	85.6	73.6	56.1	47.7	44.6
80°	65.2	53.2	39.1	34.6	33.7
82.5°	45.1	34.6	26.1	24.5	24.1
85°	27.5	18.5	16.1	15.5	15.1
87.5°	11.6	8.0	7.5	7.5	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)