

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: P888027

Luminaire Tested: **DPT5-4F021-127S27-A-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: P888027
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-A-XX-UDD
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

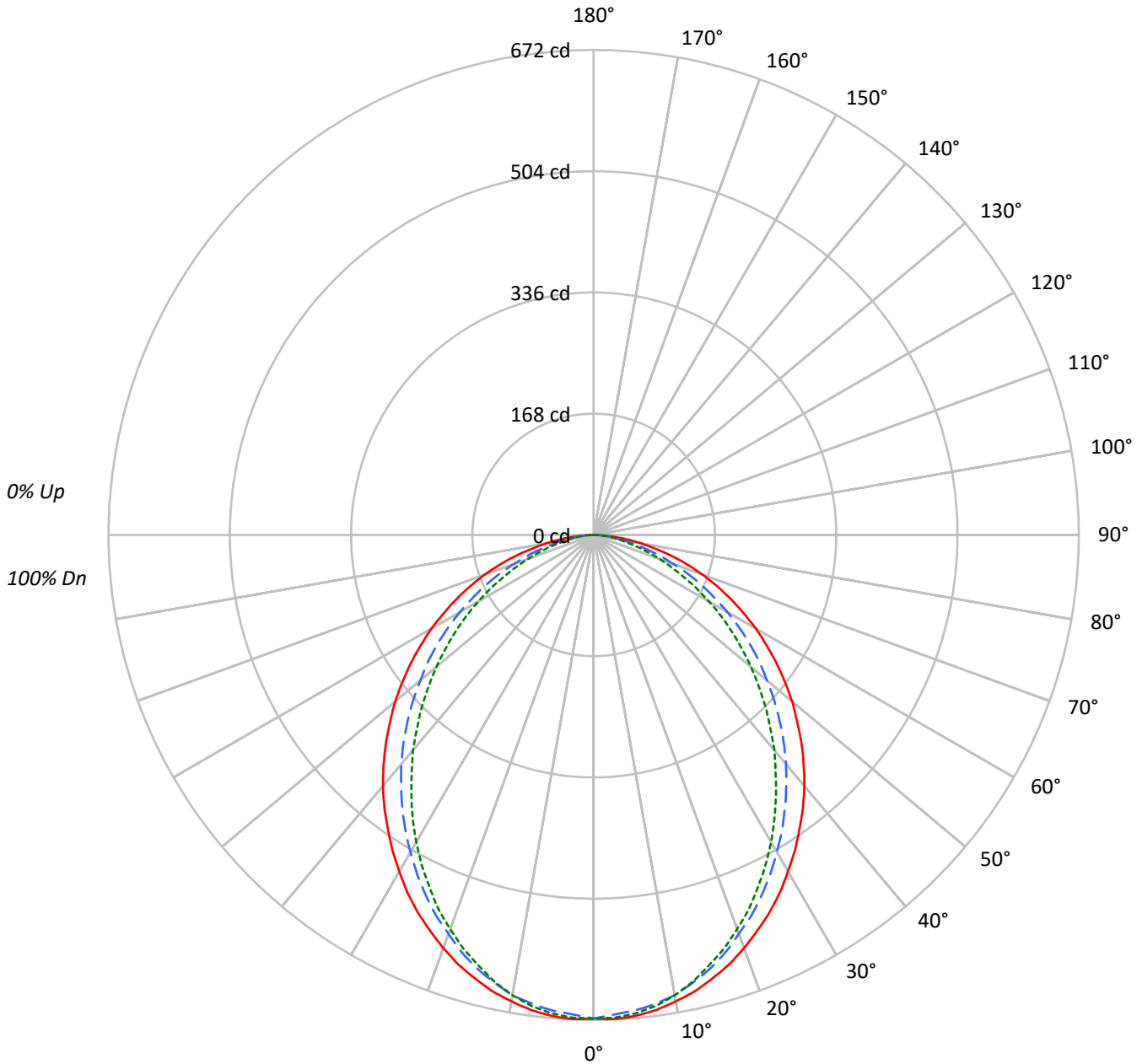
Lumens per Lamp: N/A
Luminaire Lumens: 1583.0 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

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°	11213	11213	11213
5°	11238	11110	11177
10°	11152	11006	11006
15°	11022	10782	10696
20°	10848	10471	10346
25°	10650	10166	9941
30°	10403	9808	9495
35°	10153	9438	8995
40°	9917	9052	8502
45°	9627	8621	7963
50°	9341	8154	7404
55°	9006	7708	6809
60°	8671	7162	6165
65°	8279	6533	5429
70°	7828	5739	4682
75°	7196	4843	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°	176.2	11.1
20°-30°	255.5	16.1
30°-40°	291.1	18.4
40°-50°	283.7	17.9
50°-60°	238.8	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°	494.8	31.3
0°-40°	785.9	49.6
0°-60°	1308.5	82.7
0°-90°	1583.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1583.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	670	670	670	670	670	
5°	669	667	661	666	665	63
15°	636	633	622	622	617	179
25°	577	569	551	544	538	265
35°	497	485	462	447	440	311
45°	407	392	364	344	336	314
55°	309	292	264	241	233	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°	670.1	670.1	670.1	670.1	670.1
2.5°	671.6	670.1	665.0	670.1	669.5
5°	669.0	667.0	661.4	666.4	665.4
7.5°	664.0	661.9	655.3	659.4	658.4
10°	656.3	654.8	647.7	649.3	647.7
12.5°	647.7	645.6	635.5	636.5	634.1
15°	636.2	633.1	622.4	621.9	617.4
17.5°	624.0	619.5	606.7	604.2	600.7
20°	609.2	604.2	588.0	585.5	581.0
22.5°	593.1	588.0	570.9	565.3	561.6
25°	576.8	569.2	550.6	544.0	538.4
27.5°	558.7	549.5	529.8	521.3	515.7
30°	538.4	528.9	507.6	496.0	491.4
32.5°	518.6	507.1	485.3	472.2	466.2
35°	497.0	484.8	462.0	447.4	440.3
37.5°	476.2	461.5	438.2	421.1	413.9
40°	454.0	438.8	414.4	395.2	389.2
42.5°	430.6	414.9	389.6	371.4	361.8
45°	406.8	392.3	364.3	344.1	336.5
47.5°	382.0	366.9	339.0	318.3	309.7
50°	358.8	342.1	313.2	292.0	284.4
52.5°	333.4	316.3	289.4	266.1	258.5
55°	308.7	292.5	264.2	241.4	233.4
57.5°	283.4	266.1	238.9	216.6	209.5
60°	259.1	241.4	214.0	191.8	184.2
62.5°	233.4	216.6	188.8	168.5	160.9
65°	209.1	191.8	165.0	144.7	137.1
67.5°	184.6	167.6	141.7	122.5	116.5
70°	160.0	142.7	117.3	101.7	95.7
72.5°	135.6	118.9	95.7	81.5	78.0
75°	111.3	96.1	74.9	63.8	60.3
77.5°	86.5	74.3	56.6	48.2	45.1
80°	65.8	53.7	39.5	34.9	34.0
82.5°	45.5	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)