

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: P888034

Luminaire Tested: **DPT5-4F021-127V60-A-XX-UDD_4000K**

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: P888034
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-A-XX-UDD_4000K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

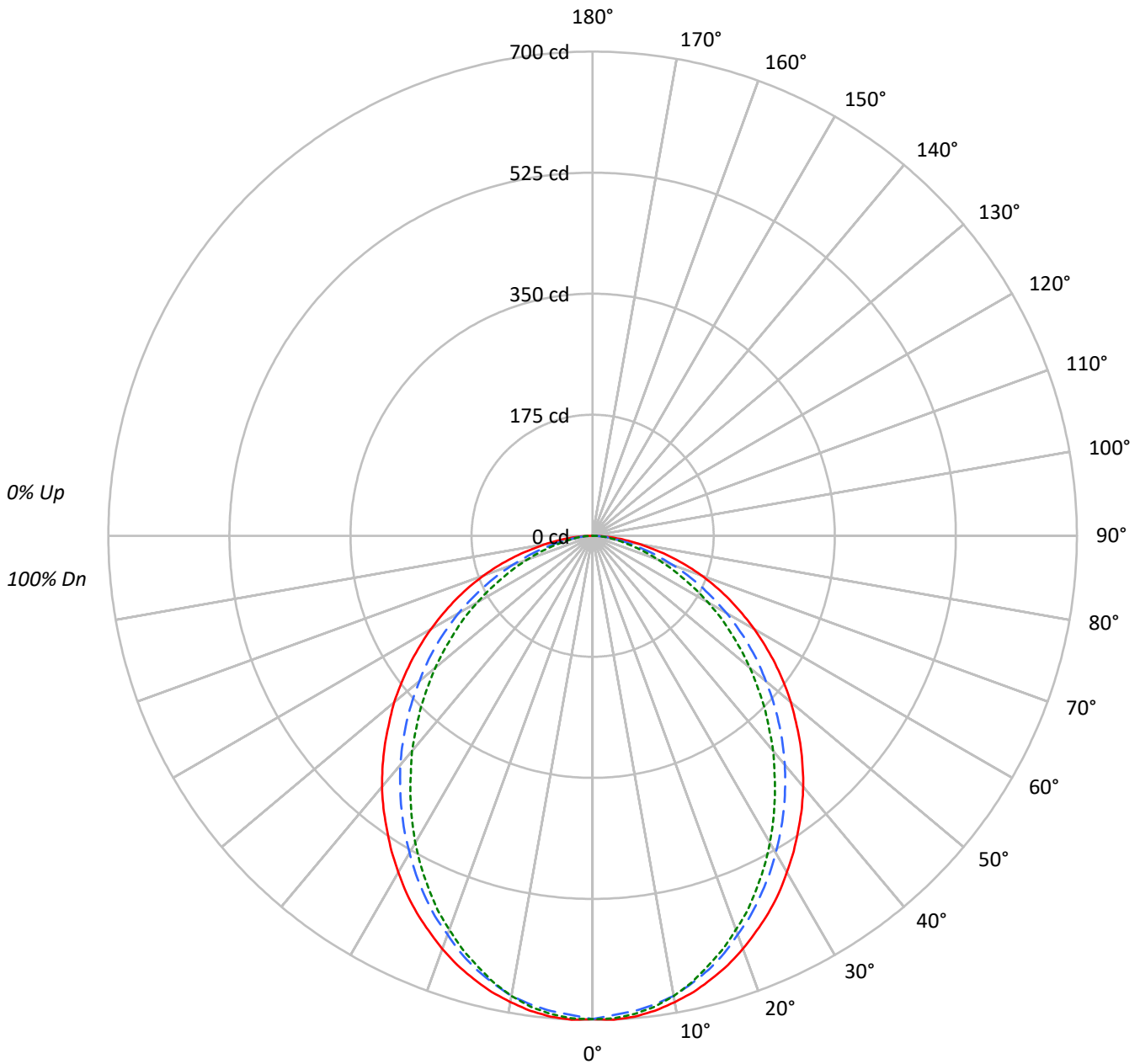
Lumens per Lamp: N/A
Luminaire Lumens: 1651.0 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

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					20					
RC	80					70					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°	11694	11694	11694
5°	11721	11587	11656
10°	11631	11478	11478
15°	11495	11245	11155
20°	11315	10921	10790
25°	11108	10602	10369
30°	10851	10229	9903
35°	10588	9844	9381
40°	10343	9441	8867
45°	10041	8993	8306
50°	9742	8505	7721
55°	9394	8040	7101
60°	9043	7470	6429
65°	8632	6814	5658
70°	8161	5989	4883
75°	7506	5049	4067
80°	6611	3970	3411
85°	5568	3245	3053



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	4.0
10°-20°	183.8	11.1
20°-30°	266.5	16.1
30°-40°	303.6	18.4
40°-50°	295.9	17.9
50°-60°	249.1	15.1
60°-70°	174.5	10.6
70°-80°	89.5	5.4
80°-90°	22.3	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°	516.1	31.3
0°-40°	819.7	49.6
0°-60°	1364.7	82.7
0°-90°	1651.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1651.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	699	699	699	699	699	
5°	698	696	690	695	694	66
15°	664	660	649	649	644	187
25°	602	594	574	567	562	277
35°	518	506	482	467	459	325
45°	424	409	380	359	351	327
55°	322	305	276	252	243	288
65°	218	200	172	151	143	216
75°	116	100	78	67	63	123
85°	29	20	17	16	16	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	698.8	698.8	698.8	698.8	698.8
2.5°	700.4	698.8	693.5	698.8	698.2
5°	697.8	695.7	689.8	695.0	693.9
7.5°	692.5	690.3	683.5	687.7	686.7
10°	684.5	683.0	675.5	677.2	675.5
12.5°	675.5	673.4	662.8	663.9	661.3
15°	663.5	660.3	649.1	648.6	643.9
17.5°	650.8	646.1	632.8	630.2	626.5
20°	635.4	630.2	613.3	610.6	605.9
22.5°	618.6	613.3	595.4	589.6	585.8
25°	601.6	593.7	574.2	567.4	561.6
27.5°	582.7	573.1	552.6	543.7	537.9
30°	561.6	551.6	529.4	517.3	512.5
32.5°	540.9	528.9	506.2	492.5	486.2
35°	518.3	505.7	481.9	466.6	459.2
37.5°	496.7	481.3	457.0	439.2	431.7
40°	473.5	457.6	432.2	412.2	405.9
42.5°	449.1	432.7	406.3	387.4	377.3
45°	424.3	409.1	380.0	358.9	351.0
47.5°	398.4	382.7	353.5	332.0	323.0
50°	374.2	356.8	326.7	304.6	296.6
52.5°	347.8	329.9	301.8	277.6	269.6
55°	322.0	305.1	275.6	251.8	243.4
57.5°	295.6	277.6	249.2	225.9	218.5
60°	270.2	251.8	223.2	200.0	192.1
62.5°	243.4	225.9	196.9	175.7	167.8
65°	218.0	200.0	172.1	150.9	142.9
67.5°	192.6	174.8	147.7	127.8	121.5
70°	166.8	148.8	122.4	106.0	99.8
72.5°	141.5	124.0	99.8	85.0	81.4
75°	116.1	100.3	78.1	66.6	62.9
77.5°	90.2	77.5	59.0	50.2	47.0
80°	68.6	56.0	41.2	36.4	35.4
82.5°	47.5	36.4	27.5	25.7	25.4
85°	29.0	19.5	16.9	16.3	15.9
87.5°	12.2	8.4	7.9	7.9	7.3
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)