

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: P888393

Luminaire Tested: **DPT5-4F029-85S40-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: P888393
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: DPT5-4F029-85S40-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

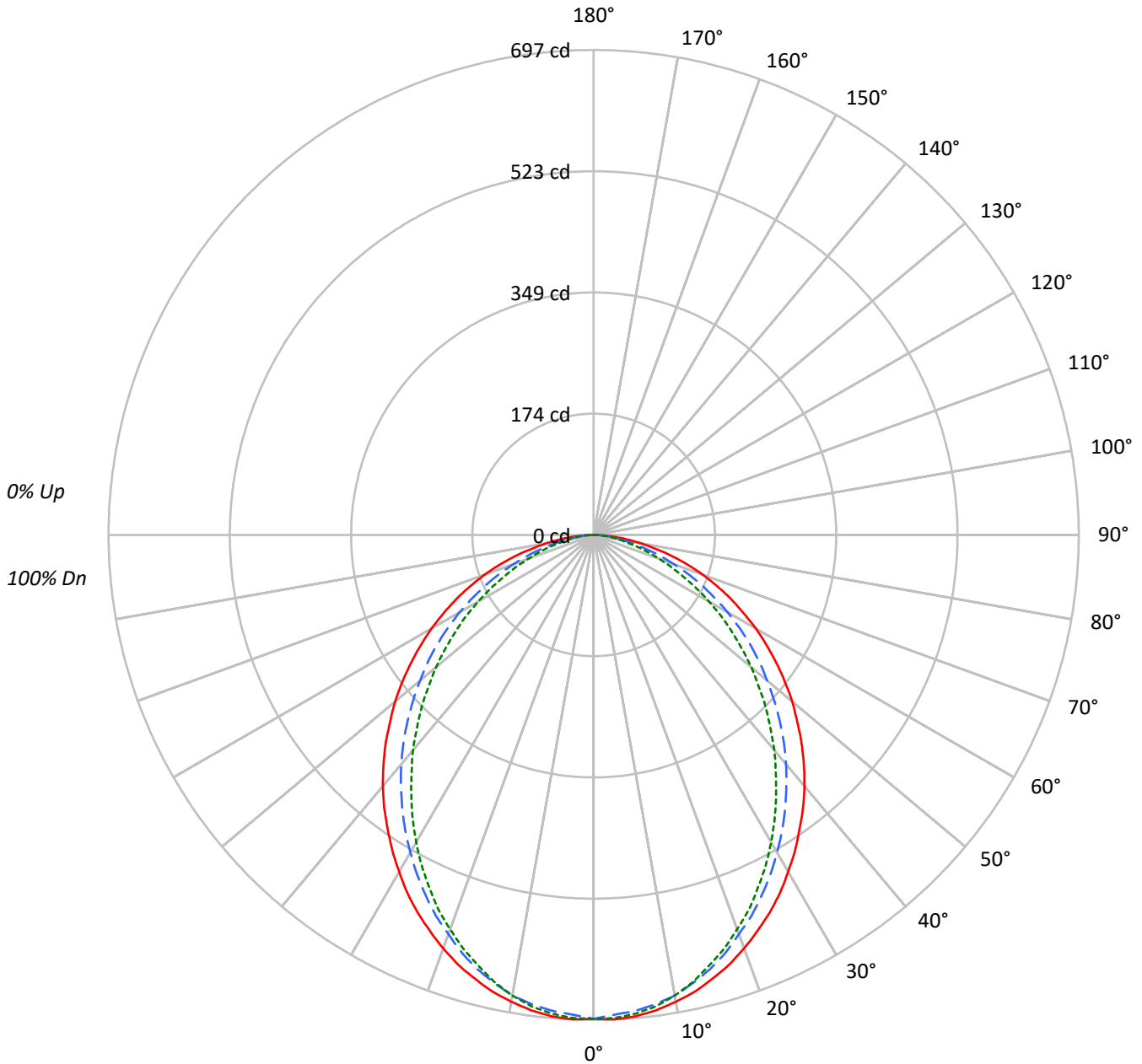
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1643.0 lumens
Efficiency: N/A
Efficacy: 102.0 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): 16.1
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°	8282	8282	8282
5°	8302	8207	8256
10°	8238	8130	8130
15°	8141	7965	7901
20°	8014	7735	7642
25°	7867	7509	7344
30°	7686	7245	7014
35°	7499	6971	6643
40°	7326	6687	6279
45°	7113	6368	5883
50°	6900	6023	5469
55°	6653	5695	5029
60°	6405	5290	4554
65°	6115	4827	4007
70°	5780	4241	3458
75°	5319	3575	2876
80°	4684	2812	2421
85°	3935	2309	2159



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.5	4.0
10°-20°	182.9	11.1
20°-30°	265.2	16.1
30°-40°	302.2	18.4
40°-50°	294.5	17.9
50°-60°	247.9	15.1
60°-70°	173.7	10.6
70°-80°	89.1	5.4
80°-90°	22.2	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°	513.6	31.3
0°-40°	815.7	49.6
0°-60°	1358.1	82.7
0°-90°	1643.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1643.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	695	695	695	695	695	
5°	694	692	686	692	691	66
15°	660	657	646	646	641	186
25°	599	591	571	565	559	276
35°	516	503	480	464	457	323
45°	422	407	378	357	349	326
55°	320	304	274	251	242	286
65°	217	199	171	150	142	215
75°	116	100	78	66	62	122
85°	29	19	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°	695.4	695.4	695.4	695.4	695.4
2.5°	697.0	695.4	690.2	695.4	694.9
5°	694.4	692.3	686.5	691.6	690.6
7.5°	689.1	687.0	680.2	684.3	683.4
10°	681.2	679.7	672.3	673.9	672.3
12.5°	672.3	670.1	659.6	660.7	658.1
15°	660.3	657.1	646.0	645.5	640.8
17.5°	647.6	642.9	629.7	627.2	623.4
20°	632.3	627.2	610.3	607.7	603.0
22.5°	615.6	610.3	592.6	586.7	582.9
25°	598.7	590.8	571.4	564.6	558.9
27.5°	579.9	570.3	549.9	541.0	535.3
30°	558.9	548.9	526.8	514.8	510.0
32.5°	538.3	526.3	503.7	490.1	483.8
35°	515.8	503.2	479.5	464.3	456.9
37.5°	494.3	479.0	454.8	437.1	429.6
40°	471.2	455.4	430.1	410.2	403.9
42.5°	446.9	430.6	404.3	385.5	375.5
45°	422.3	407.2	378.1	357.2	349.3
47.5°	396.4	380.9	351.8	330.4	321.4
50°	372.4	355.0	325.1	303.1	295.2
52.5°	346.1	328.3	300.4	276.2	268.3
55°	320.4	303.6	274.3	250.6	242.2
57.5°	294.1	276.2	248.0	224.8	217.5
60°	268.9	250.6	222.1	199.0	191.2
62.5°	242.2	224.8	195.9	174.9	167.0
65°	217.0	199.0	171.3	150.1	142.2
67.5°	191.6	173.9	147.0	127.1	120.9
70°	166.0	148.1	121.8	105.5	99.3
72.5°	140.8	123.4	99.3	84.6	81.0
75°	115.6	99.8	77.7	66.3	62.5
77.5°	89.7	77.2	58.7	50.0	46.8
80°	68.3	55.7	41.0	36.2	35.3
82.5°	47.3	36.2	27.4	25.6	25.2
85°	28.8	19.4	16.9	16.3	15.8
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)