

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: P888392

Luminaire Tested: **DPT5-4F029-85S35-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: P888392
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: DPT5-4F029-85S35-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

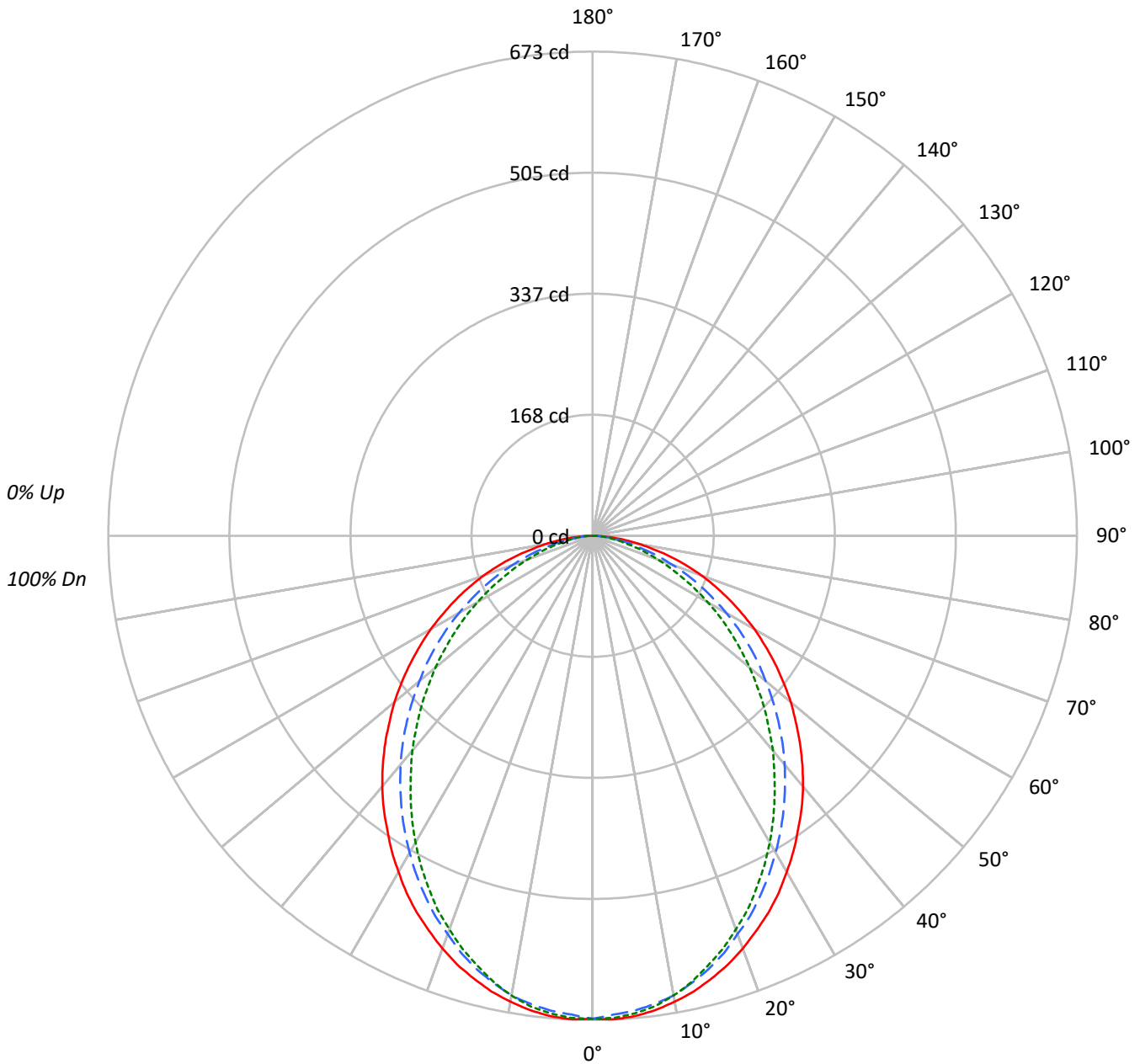
Lumens per Lamp: N/A
Luminaire Lumens: 1586.0 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P888392

CATALOG NUMBER: DPT5-4F029-85S35-F-XX-UDD

Luminous Intensity Polar Plot





TEST NUMBER: P888392

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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°	7995	7995	7995
5°	8014	7923	7969
10°	7953	7847	7847
15°	7859	7688	7627
20°	7736	7466	7377
25°	7594	7248	7089
30°	7419	6993	6770
35°	7239	6730	6413
40°	7071	6455	6062
45°	6865	6148	5679
50°	6661	5814	5280
55°	6422	5496	4855
60°	6183	5107	4395
65°	5901	4658	3869
70°	5582	4095	3336
75°	5131	3456	2779
80°	4520	2716	2332
85°	3799	2227	2077



TEST NUMBER: P888392

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.2	4.0
10°-20°	176.6	11.1
20°-30°	256.0	16.1
30°-40°	291.7	18.4
40°-50°	284.3	17.9
50°-60°	239.2	15.1
60°-70°	167.6	10.6
70°-80°	86.0	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°	495.7	31.3
0°-40°	787.4	49.6
0°-60°	1310.9	82.7
0°-90°	1586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1586.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	671	671	671	671	671	
5°	670	668	663	668	667	64
15°	637	634	624	623	619	180
25°	578	570	552	545	540	266
35°	498	486	463	448	441	312
45°	408	393	365	345	337	314
55°	309	293	265	242	234	277
65°	209	192	165	145	137	207
75°	112	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°	671.3	671.3	671.3	671.3	671.3
2.5°	672.8	671.3	666.2	671.3	670.8
5°	670.3	668.3	662.7	667.7	666.6
7.5°	665.2	663.1	656.6	660.6	659.7
10°	657.6	656.1	648.9	650.5	648.9
12.5°	648.9	646.9	636.7	637.7	635.3
15°	637.4	634.3	623.5	623.1	618.6
17.5°	625.1	620.6	607.8	605.4	601.8
20°	610.4	605.4	589.1	586.6	582.1
22.5°	594.2	589.1	572.0	566.4	562.7
25°	577.9	570.3	551.6	545.0	539.5
27.5°	559.8	550.6	530.8	522.3	516.7
30°	539.5	529.9	508.5	497.0	492.3
32.5°	519.6	508.1	486.2	473.1	467.0
35°	497.9	485.8	462.9	448.2	441.1
37.5°	477.1	462.3	439.0	421.9	414.7
40°	454.8	439.6	415.2	395.9	389.9
42.5°	431.4	415.7	390.3	372.2	362.5
45°	407.6	393.0	365.0	344.8	337.2
47.5°	382.7	367.6	339.6	318.9	310.3
50°	359.5	342.7	313.8	292.6	285.0
52.5°	334.1	316.9	290.0	266.6	259.0
55°	309.3	293.1	264.7	241.9	233.8
57.5°	283.9	266.6	239.4	217.0	209.9
60°	259.6	241.9	214.4	192.1	184.5
62.5°	233.8	217.0	189.1	168.8	161.2
65°	209.4	192.1	165.3	144.9	137.3
67.5°	185.0	167.9	141.9	122.7	116.7
70°	160.3	143.0	117.6	101.9	95.8
72.5°	135.9	119.2	95.8	81.6	78.2
75°	111.5	96.3	75.1	64.0	60.4
77.5°	86.6	74.5	56.7	48.2	45.1
80°	65.9	53.8	39.6	35.0	34.0
82.5°	45.6	35.0	26.4	24.7	24.4
85°	27.8	18.7	16.3	15.7	15.2
87.5°	11.8	8.1	7.6	7.6	7.1
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)