

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: P888391

Luminaire Tested: **DPT5-4F029-85S30-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: P888391
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: DPT5-4F029-85S30-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

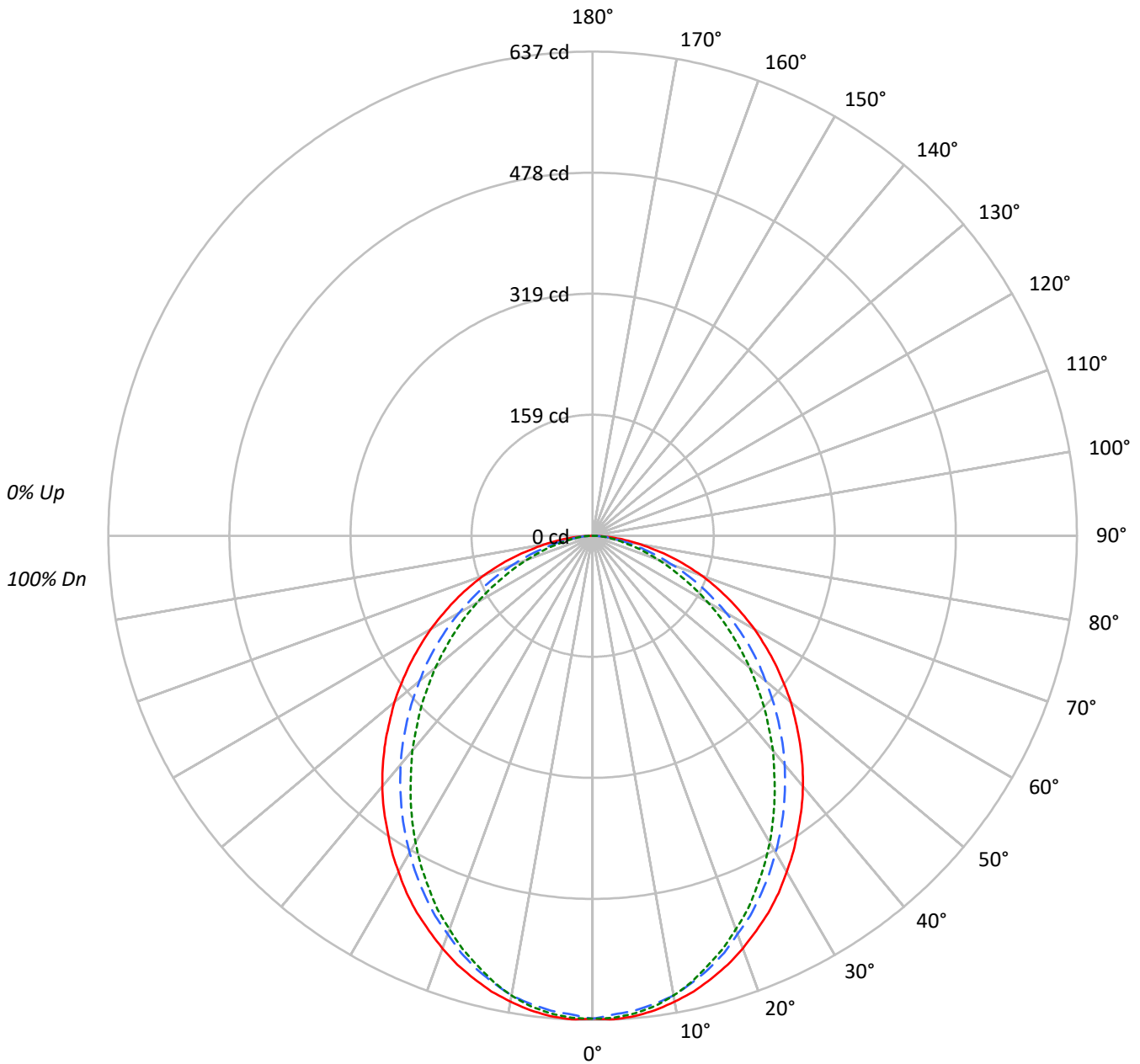
Lumens per Lamp: N/A
Luminaire Lumens: 1501.0 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')
CIE Type: Direct

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°	7566	7566	7566
5°	7584	7498	7542
10°	7526	7428	7428
15°	7437	7276	7218
20°	7322	7066	6982
25°	7188	6859	6710
30°	7022	6619	6408
35°	6851	6370	6070
40°	6691	6110	5737
45°	6498	5817	5375
50°	6303	5503	4997
55°	6078	5203	4595
60°	5852	4833	4159
65°	5585	4410	3663
70°	5282	3876	3158
75°	4859	3267	2627
80°	4280	2572	2208
85°	3594	2104	1968



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	4.0
10°-20°	167.1	11.1
20°-30°	242.3	16.1
30°-40°	276.0	18.4
40°-50°	269.0	17.9
50°-60°	226.4	15.1
60°-70°	158.7	10.6
70°-80°	81.4	5.4
80°-90°	20.3	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°	469.2	31.3
0°-40°	745.2	49.6
0°-60°	1240.7	82.7
0°-90°	1501.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1501.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	635	635	635	635	635	
5°	634	632	627	632	631	60
15°	603	600	590	590	585	170
25°	547	540	522	516	511	252
35°	471	460	438	424	418	295
45°	386	372	345	326	319	298
55°	293	277	251	229	221	262
65°	198	182	156	137	130	196
75°	106	91	71	60	57	112
85°	26	18	15	15	14	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	635.3	635.3	635.3	635.3	635.3
2.5°	636.8	635.3	630.5	635.3	634.8
5°	634.4	632.5	627.2	631.9	630.9
7.5°	629.6	627.6	621.4	625.2	624.3
10°	622.3	620.9	614.2	615.7	614.2
12.5°	614.2	612.2	602.6	603.6	601.3
15°	603.2	600.3	590.1	589.7	585.4
17.5°	591.6	587.4	575.3	572.9	569.6
20°	577.7	572.9	557.5	555.1	550.9
22.5°	562.4	557.5	541.3	536.0	532.5
25°	547.0	539.7	522.0	515.8	510.6
27.5°	529.8	521.1	502.4	494.3	489.0
30°	510.6	501.5	481.3	470.3	466.0
32.5°	491.8	480.8	460.2	447.7	442.0
35°	471.2	459.7	438.1	424.2	417.5
37.5°	451.5	437.6	415.5	399.3	392.4
40°	430.4	416.0	393.0	374.7	369.0
42.5°	408.3	393.4	369.4	352.2	343.0
45°	385.8	372.0	345.4	326.3	319.1
47.5°	362.2	347.9	321.4	301.8	293.6
50°	340.2	324.3	297.0	276.9	269.7
52.5°	316.2	300.0	274.4	252.3	245.1
55°	292.7	277.4	250.6	228.9	221.3
57.5°	268.7	252.3	226.5	205.3	198.7
60°	245.7	228.9	202.9	181.8	174.6
62.5°	221.3	205.3	179.0	159.8	152.6
65°	198.2	181.8	156.5	137.2	130.0
67.5°	175.1	158.9	134.3	116.2	110.5
70°	151.7	135.3	111.3	96.4	90.7
72.5°	128.6	112.8	90.7	77.3	74.0
75°	105.6	91.1	71.0	60.5	57.1
77.5°	82.0	70.5	53.7	45.7	42.7
80°	62.4	50.9	37.5	33.1	32.2
82.5°	43.2	33.1	25.0	23.4	23.1
85°	26.3	17.7	15.4	14.9	14.4
87.5°	11.1	7.7	7.2	7.2	6.7
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)