

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: P888396

Luminaire Tested: **DPT5-4F029-85V60-F-XX-UDD_3500K**

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: P888396
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: DPT5-4F029-85V60-F-XX-UDD_3500K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

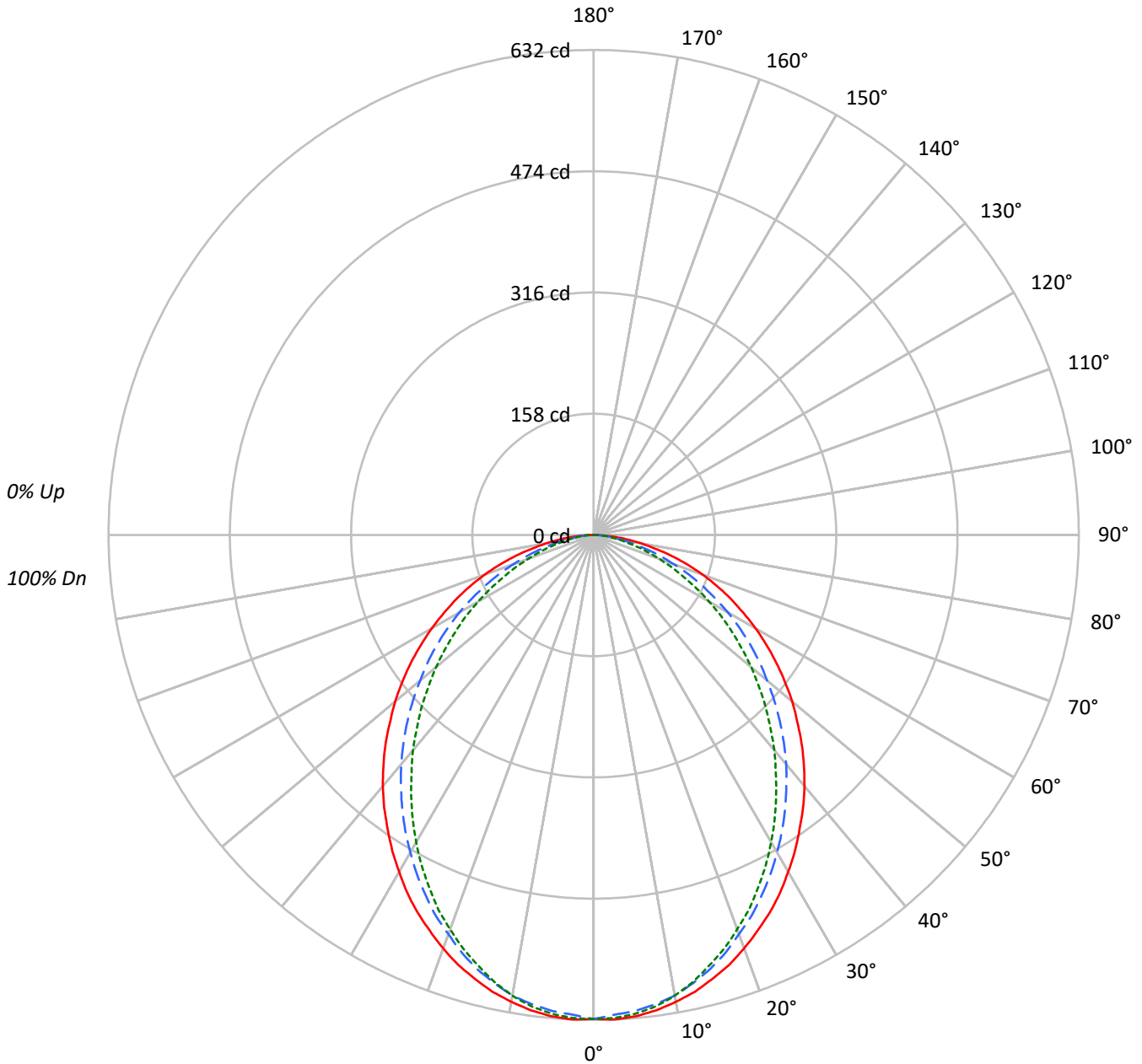
Lumens per Lamp: N/A
Luminaire Lumens: 1490.0 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')
CIE Type: Direct

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

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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°	7511	7511	7511
5°	7528	7443	7487
10°	7471	7373	7373
15°	7383	7223	7165
20°	7267	7015	6930
25°	7134	6810	6660
30°	6970	6569	6360
35°	6801	6323	6025
40°	6643	6065	5695
45°	6449	5775	5336
50°	6257	5462	4960
55°	6034	5164	4562
60°	5810	4800	4130
65°	5546	4376	3635
70°	5244	3844	3134
75°	4822	3244	2609
80°	4245	2551	2195
85°	3580	2091	1954



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.4	4.0
10°-20°	165.9	11.1
20°-30°	240.5	16.1
30°-40°	274.0	18.4
40°-50°	267.1	17.9
50°-60°	224.8	15.1
60°-70°	157.5	10.6
70°-80°	80.8	5.4
80°-90°	20.2	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°	465.7	31.3
0°-40°	739.8	49.6
0°-60°	1231.6	82.7
0°-90°	1490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1490.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	631	631	631	631	631	
5°	630	628	623	627	626	60
15°	599	596	586	585	581	169
25°	543	536	518	512	507	250
35°	468	456	435	421	414	293
45°	383	369	343	324	317	295
55°	291	275	249	227	220	260
65°	197	180	155	136	129	195
75°	105	90	70	60	57	111
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°	630.7	630.7	630.7	630.7	630.7
2.5°	632.1	630.7	625.9	630.7	630.2
5°	629.7	627.9	622.6	627.2	626.3
7.5°	624.9	623.0	616.8	620.6	619.7
10°	617.8	616.4	609.7	611.2	609.7
12.5°	609.7	607.7	598.2	599.1	596.8
15°	598.8	595.9	585.8	585.4	581.1
17.5°	587.3	583.1	571.0	568.7	565.4
20°	573.4	568.7	553.5	551.1	546.8
22.5°	558.2	553.5	537.4	532.1	528.6
25°	542.9	535.8	518.2	512.0	506.8
27.5°	525.9	517.2	498.7	490.6	485.4
30°	506.8	497.8	477.7	466.9	462.5
32.5°	488.2	477.3	456.8	444.4	438.8
35°	467.8	456.4	434.9	421.1	414.4
37.5°	448.2	434.4	412.4	396.4	389.6
40°	427.3	413.0	390.1	372.0	366.3
42.5°	405.3	390.5	366.7	349.6	340.5
45°	382.9	369.2	342.9	323.9	316.8
47.5°	359.5	345.4	319.1	299.6	291.5
50°	337.7	322.0	294.8	274.9	267.7
52.5°	313.8	297.8	272.4	250.5	243.3
55°	290.6	275.3	248.7	227.3	219.7
57.5°	266.7	250.5	224.9	203.8	197.2
60°	243.9	227.3	201.5	180.5	173.4
62.5°	219.7	203.8	177.7	158.6	151.4
65°	196.8	180.5	155.3	136.2	129.0
67.5°	173.8	157.7	133.3	115.3	109.7
70°	150.6	134.3	110.4	95.7	90.0
72.5°	127.7	111.9	90.0	76.7	73.4
75°	104.8	90.5	70.5	60.1	56.7
77.5°	81.4	70.0	53.3	45.3	42.4
80°	61.9	50.5	37.2	32.9	32.0
82.5°	42.9	32.9	24.8	23.2	22.9
85°	26.2	17.6	15.3	14.8	14.3
87.5°	11.0	7.6	7.2	7.2	6.6
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)