

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: P888390

Luminaire Tested: **DPT5-4F029-85S27-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: P888390
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: DPT5-4F029-85S27-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

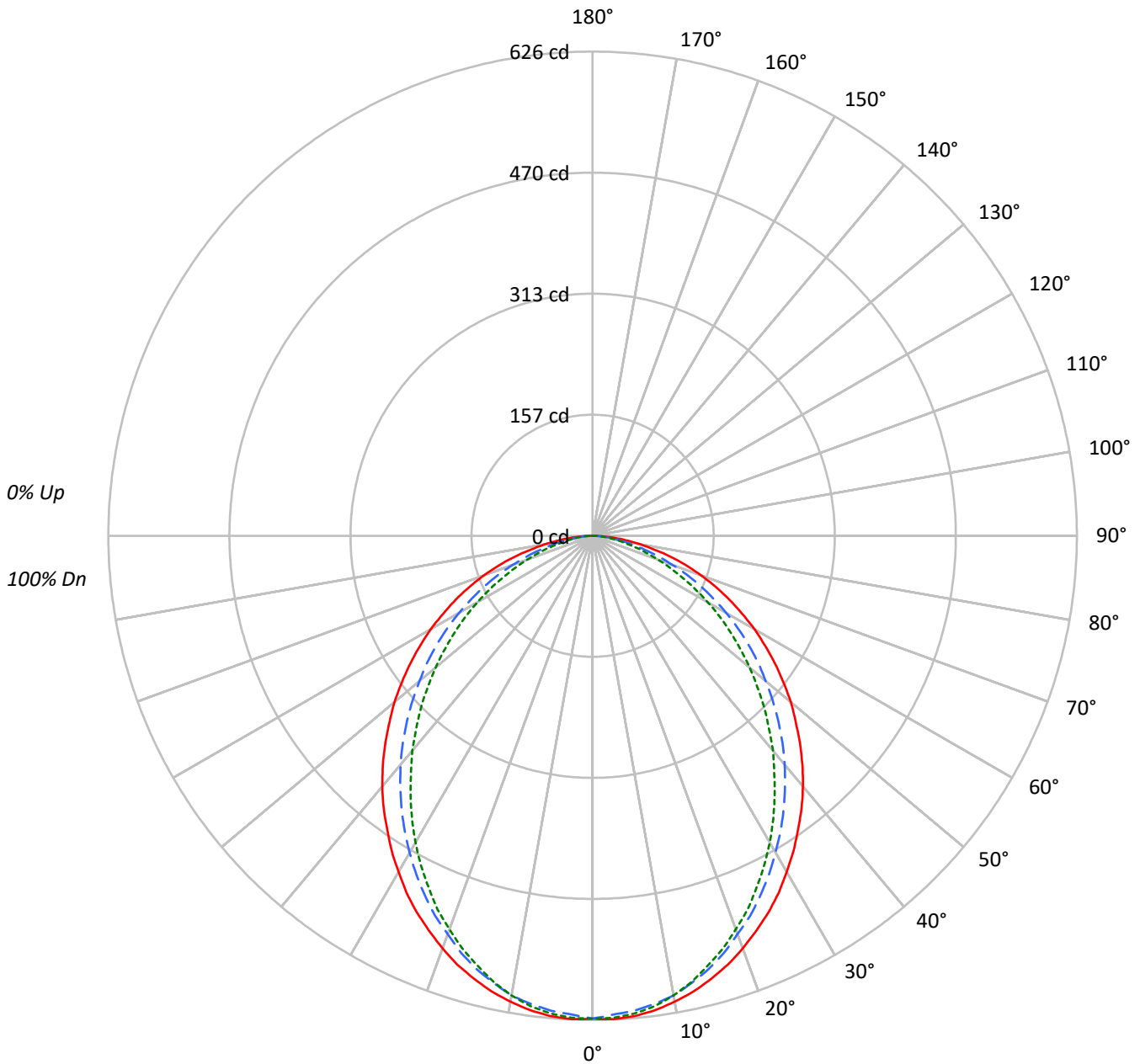
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1475.0 lumens
Efficiency: N/A
Efficacy: 91.6 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°	7435	7435	7435
5°	7453	7368	7412
10°	7396	7298	7298
15°	7309	7150	7093
20°	7195	6944	6860
25°	7063	6741	6593
30°	6899	6503	6297
35°	6732	6259	5964
40°	6576	6004	5637
45°	6385	5718	5282
50°	6194	5408	4910
55°	5974	5112	4514
60°	5750	4750	4087
65°	5490	4334	3599
70°	5188	3806	3103
75°	4772	3212	2586
80°	4204	2524	2174
85°	3539	2063	1940



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.8	4.0
10°-20°	164.2	11.1
20°-30°	238.1	16.1
30°-40°	271.3	18.4
40°-50°	264.4	17.9
50°-60°	222.5	15.1
60°-70°	155.9	10.6
70°-80°	79.9	5.4
80°-90°	19.9	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°	461.0	31.3
0°-40°	732.3	49.6
0°-60°	1219.2	82.7
0°-90°	1475.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1475.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	624	624	624	624	624	
5°	623	622	616	621	620	59
15°	593	590	580	580	575	167
25°	538	530	513	507	502	247
35°	463	452	430	417	410	290
45°	379	366	340	321	314	292
55°	288	272	246	225	217	257
65°	195	179	154	135	128	193
75°	104	90	70	60	56	110
85°	26	17	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°	624.3	624.3	624.3	624.3	624.3
2.5°	625.7	624.3	619.6	624.3	623.8
5°	623.4	621.5	616.3	620.9	620.0
7.5°	618.7	616.7	610.6	614.4	613.5
10°	611.6	610.2	603.5	605.0	603.5
12.5°	603.5	601.6	592.1	593.1	590.8
15°	592.8	589.9	579.9	579.5	575.3
17.5°	581.4	577.2	565.3	563.0	559.7
20°	567.7	563.0	547.9	545.5	541.3
22.5°	552.6	547.9	532.0	526.7	523.3
25°	537.5	530.4	513.0	506.9	501.7
27.5°	520.6	512.0	493.7	485.7	480.5
30°	501.7	492.8	472.9	462.2	457.9
32.5°	483.3	472.5	452.2	440.0	434.4
35°	463.0	451.8	430.5	416.9	410.2
37.5°	443.7	430.0	408.3	392.4	385.6
40°	423.0	408.8	386.2	368.2	362.6
42.5°	401.2	386.6	363.0	346.1	337.1
45°	379.1	365.5	339.5	320.7	313.6
47.5°	355.9	341.9	315.8	296.6	288.6
50°	334.3	318.7	291.9	272.1	265.0
52.5°	310.7	294.8	269.7	248.0	240.9
55°	287.7	272.5	246.2	225.0	217.4
57.5°	264.1	248.0	222.6	201.8	195.2
60°	241.4	225.0	199.4	178.7	171.6
62.5°	217.4	201.8	175.9	157.0	149.9
65°	194.8	178.7	153.8	134.8	127.7
67.5°	172.0	156.1	132.0	114.1	108.5
70°	149.0	132.9	109.3	94.7	89.1
72.5°	126.4	110.8	89.1	75.9	72.7
75°	103.7	89.6	69.8	59.5	56.2
77.5°	80.6	69.3	52.7	44.9	42.0
80°	61.3	50.0	36.8	32.5	31.7
82.5°	42.4	32.5	24.6	23.0	22.7
85°	25.9	17.4	15.1	14.6	14.2
87.5°	10.9	7.5	7.1	7.1	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)