

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: P888116

Luminaire Tested: **DPT5-4F029-85S30-A-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: P888116
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-A-XX-UDD
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

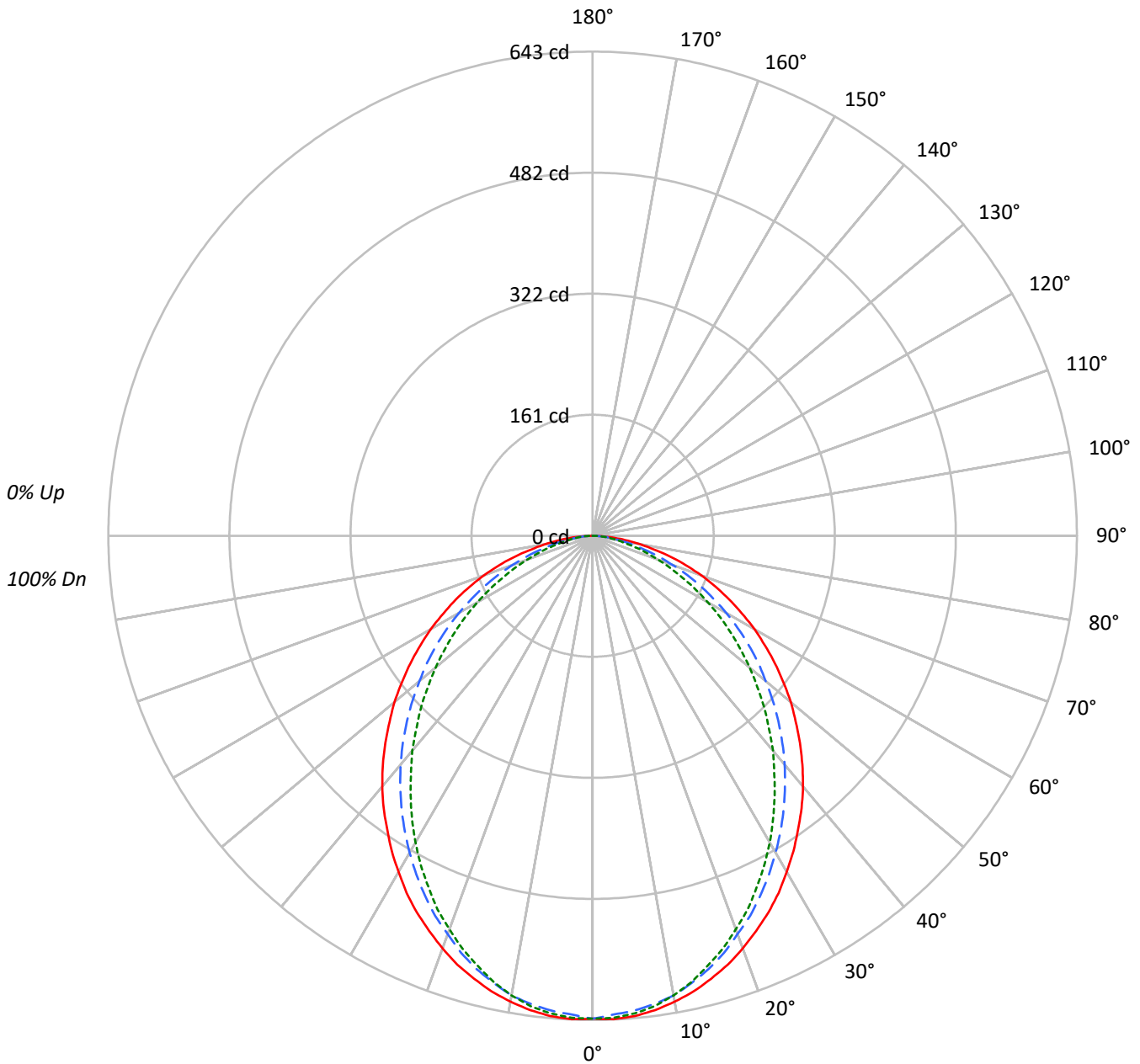
Lumens per Lamp: N/A
Luminaire Lumens: 1515.0 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')
CIE Type: Direct

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°	7638	7638	7638
5°	7655	7568	7613
10°	7597	7497	7497
15°	7506	7344	7286
20°	7390	7132	7047
25°	7255	6924	6771
30°	7086	6681	6468
35°	6915	6429	6125
40°	6755	6166	5791
45°	6559	5873	5425
50°	6363	5555	5043
55°	6136	5251	4637
60°	5907	4878	4199
65°	5639	4450	3697
70°	5331	3910	3186
75°	4901	3299	2655
80°	4321	2593	2229
85°	3635	2118	1995



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.4	4.0
10°-20°	168.7	11.1
20°-30°	244.5	16.1
30°-40°	278.6	18.4
40°-50°	271.6	17.9
50°-60°	228.5	15.1
60°-70°	160.2	10.6
70°-80°	82.1	5.4
80°-90°	20.5	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°	473.5	31.3
0°-40°	752.2	49.6
0°-60°	1252.3	82.7
0°-90°	1515.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1515.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	641	641	641	641	641	
5°	640	638	633	638	637	61
15°	609	606	596	595	591	172
25°	552	545	527	521	515	254
35°	476	464	442	428	421	298
45°	389	375	349	329	322	300
55°	296	280	253	231	223	264
65°	200	184	158	138	131	198
75°	106	92	72	61	58	113
85°	27	18	16	15	15	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	641.3	641.3	641.3	641.3	641.3
2.5°	642.7	641.3	636.4	641.3	640.7
5°	640.3	638.4	633.0	637.8	636.8
7.5°	635.4	633.5	627.2	631.0	630.1
10°	628.2	626.7	619.9	621.4	619.9
12.5°	619.9	617.9	608.2	609.2	606.9
15°	608.8	605.9	595.6	595.2	590.9
17.5°	597.2	592.8	580.6	578.3	574.9
20°	583.1	578.3	562.7	560.3	556.0
22.5°	567.6	562.7	546.4	541.0	537.5
25°	552.1	544.8	526.9	520.6	515.3
27.5°	534.7	525.9	507.0	498.9	493.6
30°	515.3	506.2	485.8	474.7	470.3
32.5°	496.4	485.3	464.5	451.9	446.1
35°	475.6	464.0	442.2	428.2	421.3
37.5°	455.8	441.6	419.4	403.0	396.1
40°	434.5	419.9	396.6	378.2	372.5
42.5°	412.1	397.1	372.8	355.5	346.2
45°	389.4	375.4	348.7	329.3	322.1
47.5°	365.6	351.2	324.4	304.6	296.4
50°	343.4	327.4	299.8	279.5	272.2
52.5°	319.1	302.8	277.0	254.7	247.4
55°	295.5	279.9	252.9	231.1	223.3
57.5°	271.2	254.7	228.6	207.3	200.5
60°	248.0	231.1	204.8	183.5	176.3
62.5°	223.3	207.3	180.7	161.3	154.0
65°	200.1	183.5	157.9	138.4	131.2
67.5°	176.7	160.4	135.6	117.2	111.5
70°	153.1	136.6	112.3	97.3	91.5
72.5°	129.8	113.8	91.5	78.0	74.7
75°	106.5	92.0	71.7	61.1	57.7
77.5°	82.7	71.2	54.2	46.1	43.1
80°	63.0	51.4	37.8	33.4	32.5
82.5°	43.6	33.4	25.2	23.6	23.3
85°	26.6	17.9	15.5	15.0	14.6
87.5°	11.2	7.7	7.3	7.3	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)