

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: P888292

Luminaire Tested: **DPT5-4F021-109S30-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: P888292
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: DPT5-4F021-109S30-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

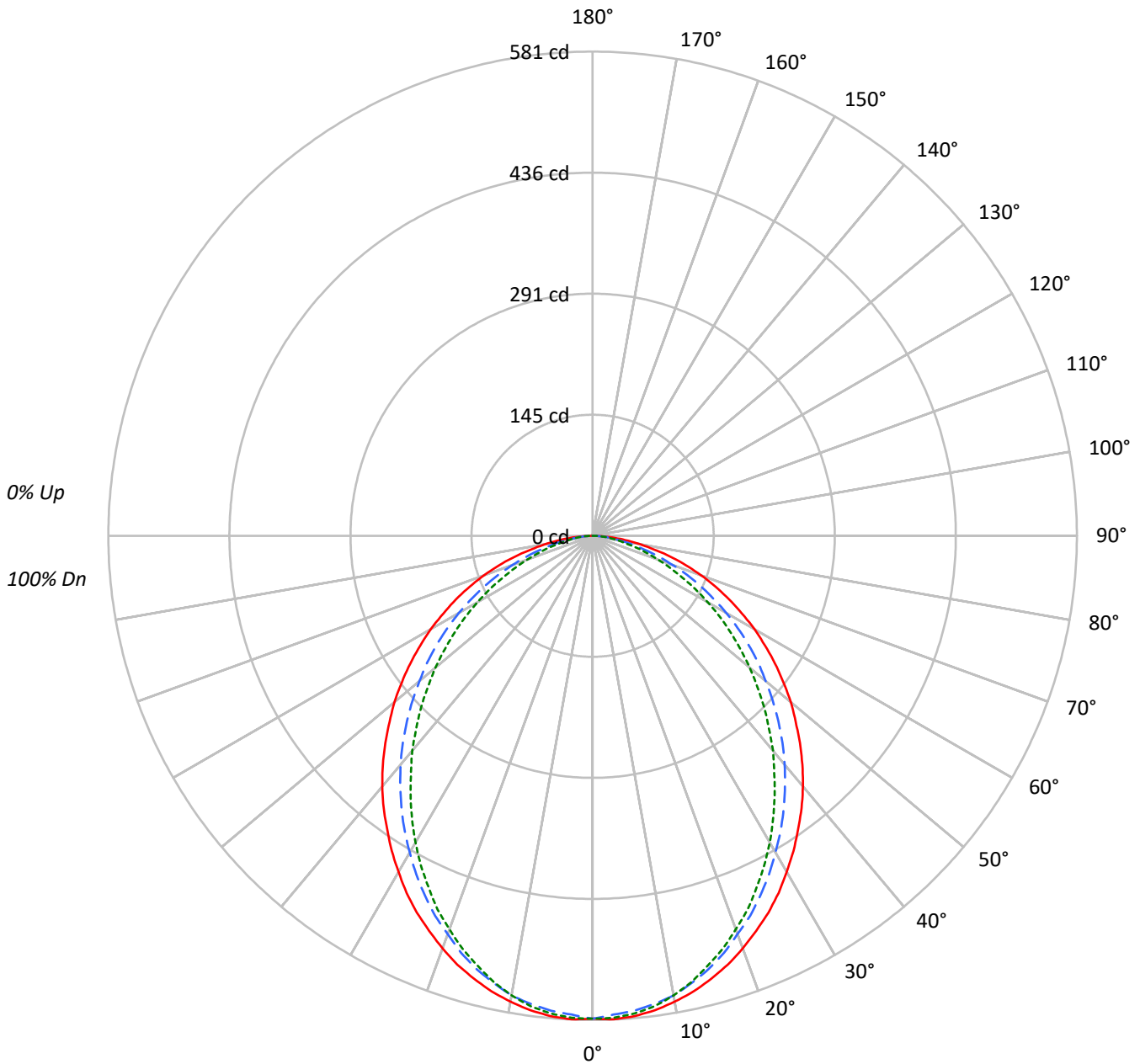
Lumens per Lamp: N/A
Luminaire Lumens: 1369.0 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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°	9697	9697	9697
5°	9719	9608	9665
10°	9645	9517	9517
15°	9532	9324	9249
20°	9383	9055	8947
25°	9212	8791	8599
30°	8998	8481	8212
35°	8780	8163	7777
40°	8576	7829	7353
45°	8325	7457	6887
50°	8078	7052	6404
55°	7790	6666	5887
60°	7500	6195	5331
65°	7159	5650	4692
70°	6766	4966	4046
75°	6226	4190	3368
80°	5483	3296	2833
85°	4608	2688	2534



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	4.0
10°-20°	152.4	11.1
20°-30°	221.0	16.1
30°-40°	251.8	18.4
40°-50°	245.4	17.9
50°-60°	206.5	15.1
60°-70°	144.7	10.6
70°-80°	74.2	5.4
80°-90°	18.5	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°	427.9	31.3
0°-40°	679.7	49.6
0°-60°	1131.6	82.7
0°-90°	1369.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1369.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	580	580	580	580	580	
5°	579	577	572	576	575	55
15°	550	548	538	538	534	155
25°	499	492	476	470	466	230
35°	430	419	400	387	381	269
45°	352	339	315	298	291	271
55°	267	253	228	209	202	239
65°	181	166	143	125	118	179
75°	96	83	65	55	52	102
85°	24	16	14	14	13	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	579.5	579.5	579.5	579.5	579.5
2.5°	580.8	579.5	575.1	579.5	579.0
5°	578.6	576.9	572.0	576.3	575.4
7.5°	574.2	572.4	566.7	570.2	569.4
10°	567.6	566.3	560.1	561.5	560.1
12.5°	560.1	558.4	549.6	550.5	548.4
15°	550.2	547.5	538.2	537.8	533.9
17.5°	539.6	535.7	524.7	522.6	519.5
20°	526.9	522.6	508.5	506.3	502.4
22.5°	512.9	508.5	493.7	488.9	485.7
25°	498.9	492.3	476.1	470.4	465.7
27.5°	483.2	475.2	458.2	450.8	446.0
30°	465.7	457.4	438.9	429.0	425.0
32.5°	448.5	438.5	419.7	408.3	403.1
35°	429.8	419.3	399.6	386.9	380.7
37.5°	411.8	399.1	379.0	364.2	357.9
40°	392.6	379.4	358.4	341.8	336.6
42.5°	372.4	358.8	336.9	321.2	312.9
45°	351.8	339.3	315.1	297.6	291.0
47.5°	330.3	317.3	293.1	275.3	267.8
50°	310.3	295.8	270.9	252.6	246.0
52.5°	288.4	273.6	250.3	230.1	223.6
55°	267.0	253.0	228.5	208.8	201.8
57.5°	245.1	230.1	206.6	187.3	181.2
60°	224.1	208.8	185.1	165.9	159.3
62.5°	201.8	187.3	163.3	145.7	139.1
65°	180.8	165.9	142.7	125.1	118.5
67.5°	159.7	144.9	122.5	105.9	100.7
70°	138.3	123.4	101.5	87.9	82.7
72.5°	117.3	102.9	82.7	70.5	67.5
75°	96.3	83.1	64.8	55.2	52.1
77.5°	74.8	64.3	49.0	41.6	39.0
80°	56.9	46.4	34.2	30.2	29.4
82.5°	39.4	30.2	22.8	21.4	21.0
85°	24.0	16.2	14.0	13.6	13.2
87.5°	10.1	7.0	6.6	6.6	6.1
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)