

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: P888335

Luminaire Tested: **DPT5-4F021-85S27-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: P888335
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: DPT5-4F021-85S27-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

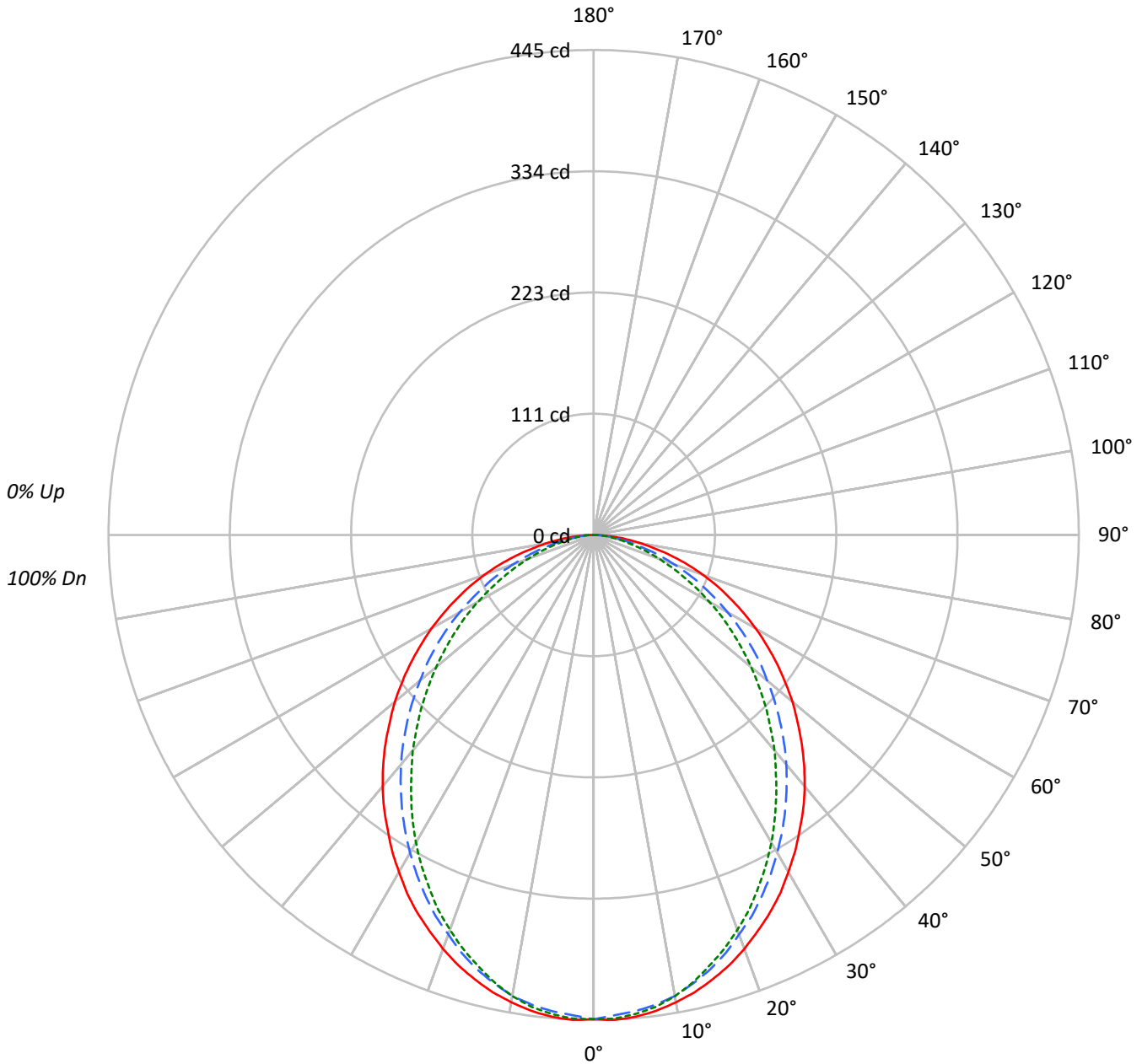
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1050.0 lumens
Efficiency: N/A
Efficacy: 92.1 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): 11.4
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°	7436	7436	7436
5°	7455	7369	7413
10°	7398	7300	7300
15°	7311	7151	7094
20°	7196	6945	6863
25°	7064	6743	6593
30°	6900	6506	6299
35°	6733	6261	5965
40°	6577	6005	5638
45°	6387	5717	5282
50°	6196	5410	4912
55°	5975	5114	4516
60°	5750	4752	4090
65°	5492	4336	3599
70°	5191	3806	3102
75°	4771	3213	2586
80°	4202	2525	2168
85°	3533	2074	1939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.8	4.0
10°-20°	116.9	11.1
20°-30°	169.5	16.1
30°-40°	193.1	18.4
40°-50°	188.2	17.9
50°-60°	158.4	15.1
60°-70°	111.0	10.6
70°-80°	56.9	5.4
80°-90°	14.2	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°	328.2	31.3
0°-40°	521.3	49.6
0°-60°	867.9	82.7
0°-90°	1050.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1050.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	444	444	444	444	444	
5°	444	442	439	442	441	42
15°	422	420	413	412	410	119
25°	383	378	365	361	357	176
35°	330	322	306	297	292	206
45°	270	260	242	228	223	208
55°	205	194	175	160	155	183
65°	139	127	110	96	91	137
75°	74	64	50	42	40	78
85°	18	12	11	10	10	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	444.4	444.4	444.4	444.4	444.4
2.5°	445.4	444.4	441.1	444.4	444.1
5°	443.8	442.5	438.7	442.0	441.3
7.5°	440.4	439.0	434.7	437.3	436.7
10°	435.4	434.4	429.6	430.7	429.6
12.5°	429.6	428.3	421.5	422.2	420.6
15°	422.0	419.9	412.8	412.5	409.5
17.5°	413.9	410.9	402.4	400.8	398.4
20°	404.1	400.8	390.0	388.3	385.4
22.5°	393.4	390.0	378.7	375.0	372.5
25°	382.6	377.6	365.2	360.8	357.1
27.5°	370.6	364.5	351.4	345.8	342.1
30°	357.1	350.8	336.7	329.0	326.0
32.5°	344.0	336.4	321.9	313.2	309.2
35°	329.6	321.6	306.5	296.8	292.0
37.5°	315.9	306.1	290.7	279.3	274.5
40°	301.1	291.0	274.9	262.1	258.1
42.5°	285.6	275.2	258.4	246.4	240.0
45°	269.9	260.2	241.6	228.3	223.2
47.5°	253.4	243.4	224.8	211.1	205.4
50°	238.0	226.9	207.8	193.7	188.7
52.5°	221.2	209.8	192.0	176.5	171.5
55°	204.8	194.0	175.3	160.1	154.8
57.5°	188.0	176.5	158.5	143.6	139.0
60°	171.8	160.1	142.0	127.2	122.2
62.5°	154.8	143.6	125.2	111.8	106.7
65°	138.7	127.2	109.5	95.9	90.9
67.5°	122.5	111.1	94.0	81.3	77.3
70°	106.1	94.6	77.8	67.4	63.4
72.5°	90.0	78.9	63.4	54.0	51.7
75°	73.8	63.8	49.7	42.3	40.0
77.5°	57.3	49.3	37.5	31.9	29.9
80°	43.6	35.6	26.2	23.2	22.5
82.5°	30.2	23.2	17.5	16.4	16.1
85°	18.4	12.4	10.8	10.4	10.1
87.5°	7.8	5.4	5.0	5.0	4.7
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)