

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: P888295

Luminaire Tested: **DPT5-4F021-109V60-F-XX-UDD_2700K**

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: P888295
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: DPT5-4F021-109V60-F-XX-UDD_2700K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

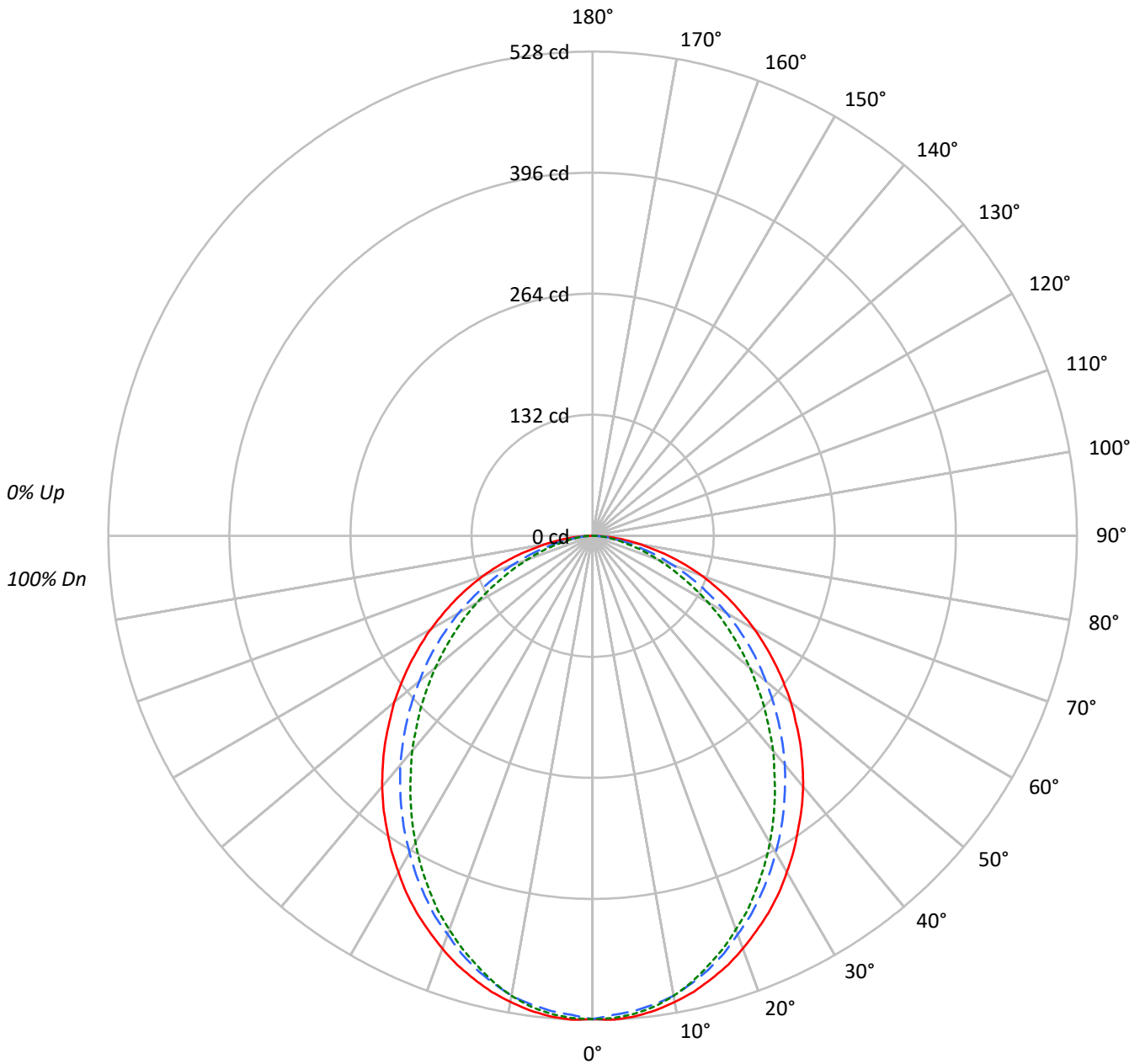
Lumens per Lamp: N/A
Luminaire Lumens: 1245.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')
CIE Type: Direct

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°	8819	8819	8819
5°	8839	8738	8790
10°	8771	8656	8656
15°	8667	8480	8413
20°	8532	8236	8136
25°	8377	7995	7819
30°	8183	7714	7468
35°	7983	7424	7074
40°	7798	7121	6687
45°	7573	6780	6264
50°	7347	6415	5824
55°	7084	6062	5354
60°	6821	5633	4849
65°	6509	5139	4268
70°	6155	4516	3679
75°	5664	3808	3065
80°	4992	2997	2573
85°	4205	2458	2304



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.6	4.0
10°-20°	138.6	11.1
20°-30°	201.0	16.1
30°-40°	229.0	18.4
40°-50°	223.2	17.9
50°-60°	187.8	15.1
60°-70°	131.6	10.6
70°-80°	67.5	5.4
80°-90°	16.8	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°	389.2	31.3
0°-40°	618.1	49.6
0°-60°	1029.1	82.7
0°-90°	1245.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1245.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	527	527	527	527	527	
5°	526	525	520	524	523	50
15°	500	498	490	489	486	141
25°	454	448	433	428	424	209
35°	391	381	363	352	346	245
45°	320	308	286	271	265	247
55°	243	230	208	190	184	217
65°	164	151	130	114	108	163
75°	88	76	59	50	47	93
85°	22	15	13	12	12	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	527.0	527.0	527.0	527.0	527.0
2.5°	528.2	527.0	523.0	527.0	526.5
5°	526.2	524.6	520.2	524.1	523.3
7.5°	522.2	520.6	515.4	518.6	517.8
10°	516.2	515.0	509.4	510.7	509.4
12.5°	509.4	507.8	499.8	500.6	498.7
15°	500.3	497.9	489.5	489.1	485.6
17.5°	490.7	487.2	477.1	475.2	472.4
20°	479.1	475.2	462.5	460.5	456.9
22.5°	466.4	462.5	449.0	444.6	441.7
25°	453.7	447.7	433.0	427.8	423.5
27.5°	439.4	432.2	416.7	410.0	405.6
30°	423.5	415.9	399.2	390.1	386.5
32.5°	407.9	398.8	381.7	371.4	366.6
35°	390.8	381.3	363.4	351.9	346.3
37.5°	374.5	362.9	344.6	331.2	325.5
40°	357.0	345.1	326.0	310.8	306.1
42.5°	338.6	326.3	306.4	292.1	284.5
45°	320.0	308.5	286.5	270.7	264.7
47.5°	300.4	288.6	266.6	250.4	243.6
50°	282.2	269.0	246.4	229.7	223.7
52.5°	262.2	248.8	227.6	209.3	203.3
55°	242.8	230.0	207.8	189.9	183.5
57.5°	222.9	209.3	187.9	170.3	164.8
60°	203.8	189.9	168.3	150.8	144.9
62.5°	183.5	170.3	148.5	132.5	126.5
65°	164.4	150.8	129.8	113.8	107.8
67.5°	145.2	131.8	111.4	96.3	91.6
70°	125.8	112.2	92.3	80.0	75.2
72.5°	106.7	93.5	75.2	64.1	61.4
75°	87.6	75.6	58.9	50.2	47.4
77.5°	68.0	58.5	44.5	37.9	35.4
80°	51.8	42.2	31.1	27.5	26.7
82.5°	35.8	27.5	20.7	19.4	19.1
85°	21.9	14.7	12.8	12.3	12.0
87.5°	9.2	6.3	6.0	6.0	5.5
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)