

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: P888339

Luminaire Tested: **DPT5-4F021-85V60-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: P888339
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: DPT5-4F021-85V60-F-XX-UDD_2700K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

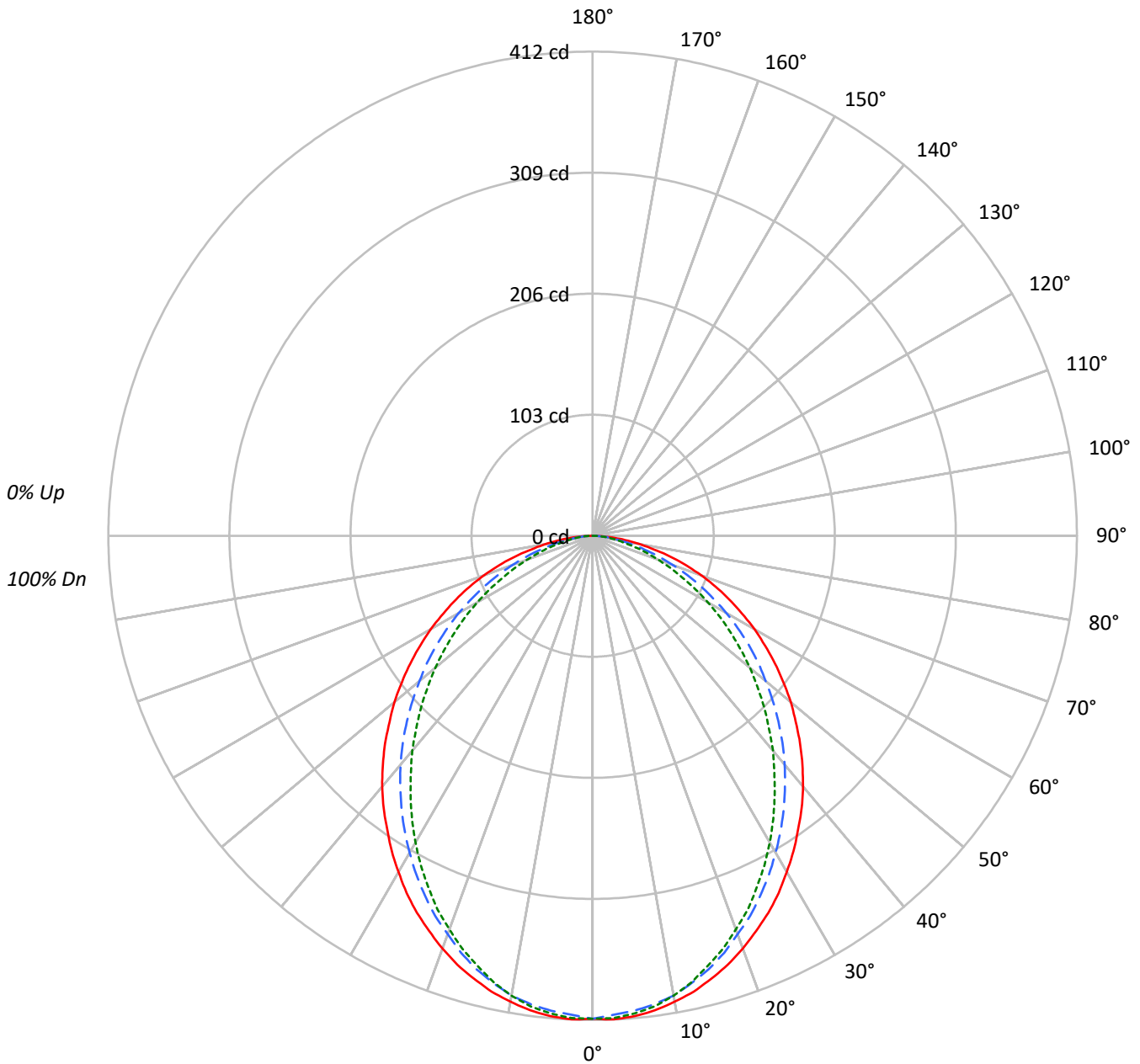
Lumens per Lamp: N/A
Luminaire Lumens: 971.0 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')
CIE Type: Direct

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°	6878	6878	6878
5°	6894	6815	6855
10°	6841	6751	6751
15°	6760	6614	6561
20°	6655	6423	6347
25°	6532	6235	6099
30°	6382	6015	5824
35°	6226	5789	5516
40°	6084	5553	5214
45°	5907	5289	4884
50°	5730	5001	4543
55°	5526	4729	4175
60°	5318	4394	3782
65°	5076	4007	3330
70°	4800	3523	2872
75°	4416	2968	2392
80°	3893	2332	2004
85°	3264	1920	1786



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.7	4.0
10°-20°	108.1	11.1
20°-30°	156.7	16.1
30°-40°	178.6	18.4
40°-50°	174.0	17.9
50°-60°	146.5	15.1
60°-70°	102.6	10.6
70°-80°	52.6	5.4
80°-90°	13.1	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°	303.5	31.3
0°-40°	482.1	49.6
0°-60°	802.6	82.7
0°-90°	971.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	971.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	411	411	411	411	411	
5°	410	409	406	409	408	39
15°	390	388	382	382	379	110
25°	354	349	338	334	330	163
35°	305	297	283	274	270	191
45°	250	241	224	211	206	192
55°	189	179	162	148	143	169
65°	128	118	101	89	84	127
75°	68	59	46	39	37	72
85°	17	12	10	10	9	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	411.0	411.0	411.0	411.0	411.0
2.5°	411.9	411.0	407.9	411.0	410.7
5°	410.4	409.2	405.7	408.8	408.1
7.5°	407.3	406.0	402.0	404.4	403.9
10°	402.6	401.7	397.3	398.3	397.3
12.5°	397.3	396.0	389.8	390.4	389.0
15°	390.2	388.3	381.8	381.5	378.7
17.5°	382.7	380.0	372.1	370.6	368.5
20°	373.7	370.6	360.7	359.1	356.4
22.5°	363.8	360.7	350.2	346.7	344.5
25°	353.8	349.2	337.7	333.7	330.3
27.5°	342.7	337.1	325.0	319.7	316.3
30°	330.3	324.4	311.3	304.3	301.4
32.5°	318.1	311.0	297.7	289.6	285.9
35°	304.8	297.4	283.4	274.4	270.0
37.5°	292.1	283.1	268.8	258.3	253.9
40°	278.5	269.1	254.2	242.4	238.7
42.5°	264.1	254.5	239.0	227.8	221.9
45°	249.6	240.6	223.5	211.1	206.4
47.5°	234.3	225.1	207.9	195.3	190.0
50°	220.1	209.8	192.1	179.1	174.5
52.5°	204.5	194.0	177.5	163.2	158.6
55°	189.4	179.4	162.1	148.1	143.1
57.5°	173.8	163.2	146.5	132.8	128.5
60°	158.9	148.1	131.3	117.6	113.0
62.5°	143.1	132.8	115.8	103.4	98.7
65°	128.2	117.6	101.2	88.7	84.1
67.5°	113.3	102.8	86.9	75.1	71.5
70°	98.1	87.5	72.0	62.4	58.7
72.5°	83.2	73.0	58.7	50.0	47.8
75°	68.3	59.0	45.9	39.2	37.0
77.5°	53.0	45.6	34.7	29.5	27.6
80°	40.4	32.9	24.2	21.4	20.8
82.5°	27.9	21.4	16.2	15.1	14.9
85°	17.0	11.5	10.0	9.6	9.3
87.5°	7.2	5.0	4.7	4.7	4.3
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)