

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: P888332

Luminaire Tested: **DPT5-4F021-61V60-F-XX-UDD_4500K**

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: P888332
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: DPT5-4F021-61V60-F-XX-UDD_4500K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

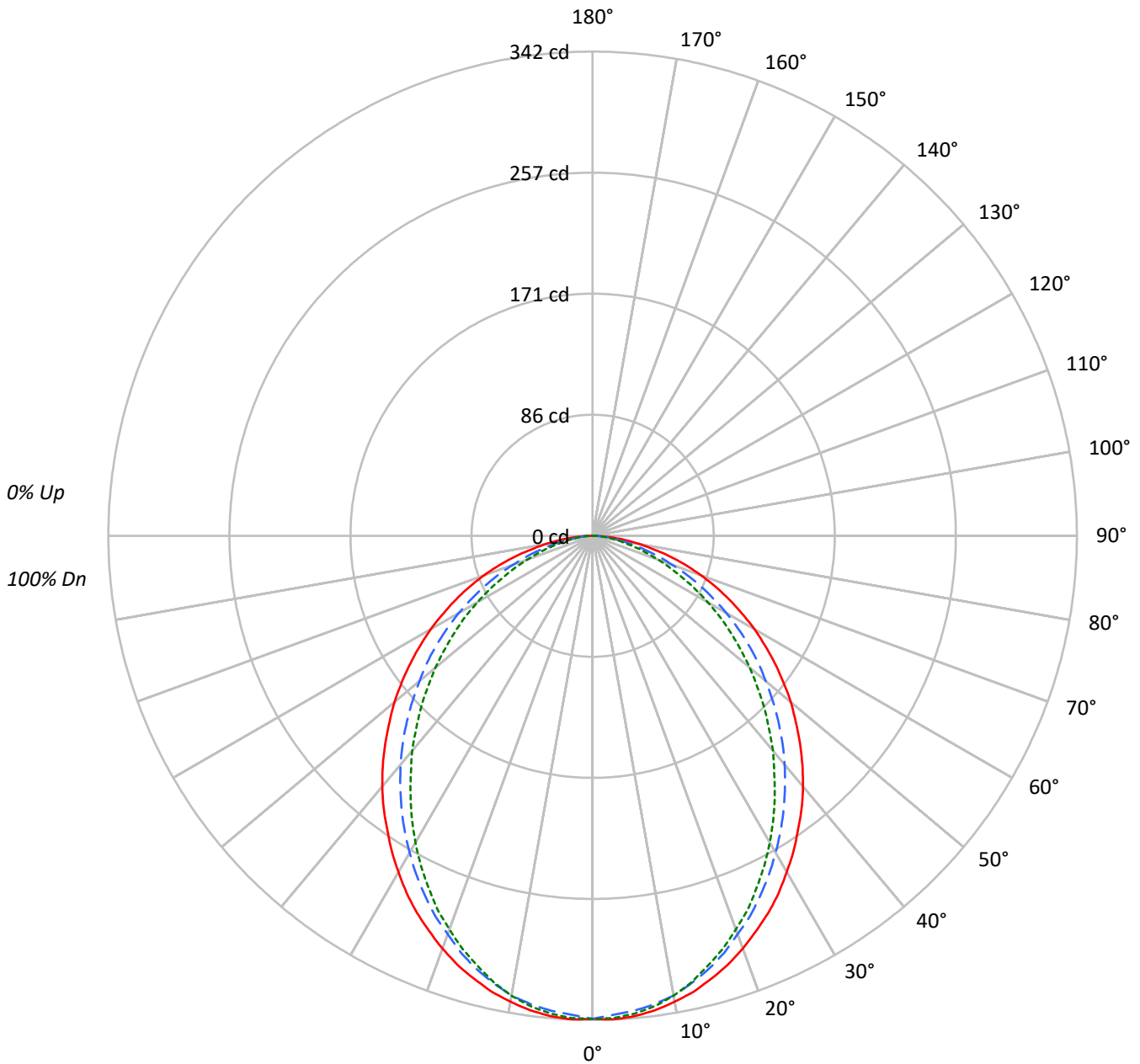
Lumens per Lamp: N/A
Luminaire Lumens: 806.0 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')
CIE Type: Direct

Input Watts (W): 8.2
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°	5710	5710	5710
5°	5721	5657	5691
10°	5679	5604	5604
15°	5611	5490	5447
20°	5524	5332	5268
25°	5423	5175	5063
30°	5298	4993	4834
35°	5168	4805	4580
40°	5048	4609	4330
45°	4901	4390	4054
50°	4756	4152	3770
55°	4586	3924	3466
60°	4414	3648	3139
65°	4213	3326	2764
70°	3983	2921	2383
75°	3666	2463	1985
80°	3228	1937	1667
85°	2707	1594	1478



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.1	4.0
10°-20°	89.7	11.1
20°-30°	130.1	16.1
30°-40°	148.2	18.4
40°-50°	144.5	17.9
50°-60°	121.6	15.1
60°-70°	85.2	10.6
70°-80°	43.7	5.4
80°-90°	10.9	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°	251.9	31.3
0°-40°	400.2	49.6
0°-60°	666.2	82.7
0°-90°	806.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	806.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	341	341	341	341	341	
5°	341	340	337	339	339	32
15°	324	322	317	317	314	91
25°	294	290	280	277	274	135
35°	253	247	235	228	224	158
45°	207	200	186	175	171	160
55°	157	149	134	123	119	141
65°	106	98	84	74	70	105
75°	57	49	38	32	31	60
85°	14	10	8	8	8	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	341.2	341.2	341.2	341.2	341.2
2.5°	341.9	341.2	338.6	341.2	340.9
5°	340.6	339.6	336.8	339.3	338.8
7.5°	338.1	337.0	333.7	335.7	335.2
10°	334.2	333.4	329.8	330.6	329.8
12.5°	329.8	328.7	323.6	324.1	322.9
15°	323.9	322.3	316.9	316.6	314.4
17.5°	317.7	315.4	308.9	307.7	305.8
20°	310.2	307.7	299.4	298.1	295.8
22.5°	302.0	299.4	290.7	287.8	286.0
25°	293.7	289.8	280.3	277.0	274.2
27.5°	284.5	279.8	269.8	265.4	262.6
30°	274.2	269.3	258.4	252.6	250.2
32.5°	264.1	258.2	247.1	240.4	237.4
35°	253.0	246.9	235.2	227.8	224.2
37.5°	242.5	235.0	223.1	214.4	210.7
40°	231.1	223.4	211.0	201.2	198.2
42.5°	219.2	211.3	198.4	189.1	184.2
45°	207.1	199.7	185.5	175.2	171.3
47.5°	194.5	186.8	172.6	162.1	157.7
50°	182.7	174.2	159.5	148.7	144.8
52.5°	169.8	161.1	147.4	135.5	131.6
55°	157.2	148.9	134.5	122.9	118.8
57.5°	144.3	135.5	121.6	110.3	106.7
60°	131.9	122.9	109.0	97.6	93.8
62.5°	118.8	110.3	96.1	85.8	81.9
65°	106.4	97.6	84.0	73.7	69.8
67.5°	94.0	85.3	72.1	62.4	59.3
70°	81.4	72.6	59.7	51.8	48.7
72.5°	69.1	60.6	48.7	41.5	39.7
75°	56.7	48.9	38.1	32.5	30.7
77.5°	44.0	37.9	28.8	24.5	22.9
80°	33.5	27.3	20.1	17.8	17.3
82.5°	23.2	17.8	13.4	12.6	12.4
85°	14.1	9.5	8.3	8.0	7.7
87.5°	6.0	4.1	3.9	3.9	3.6
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)