

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: P888066

Luminaire Tested: **DPT5-4F021-85V60-A-XX-UDD_3500K**

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: P888066
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-A-XX-UDD_3500K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

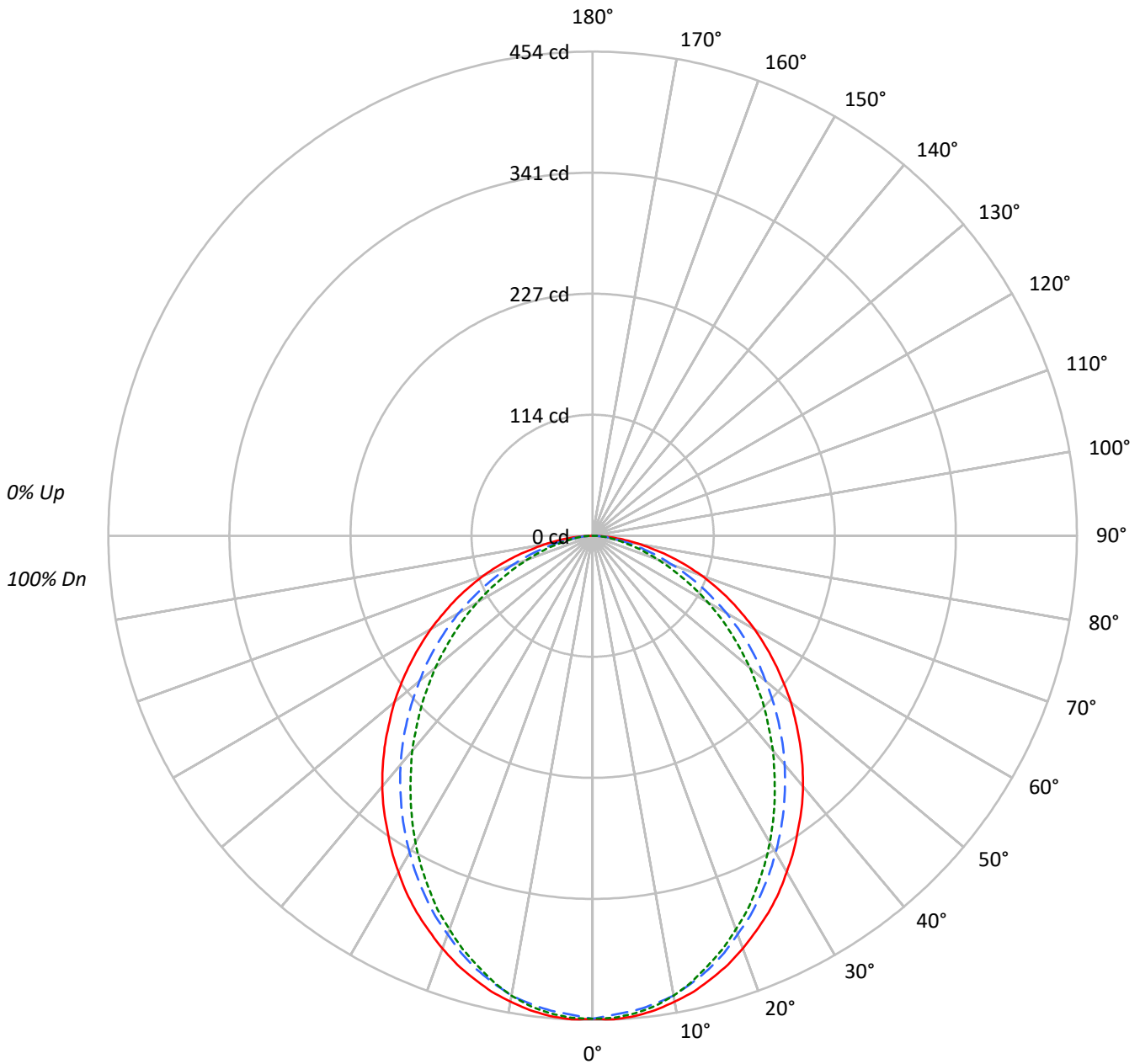
Lumens per Lamp: N/A
Luminaire Lumens: 1070.0 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

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°	7579	7579	7579
5°	7596	7510	7554
10°	7538	7439	7439
15°	7449	7288	7229
20°	7333	7079	6993
25°	7199	6870	6721
30°	7033	6630	6419
35°	6862	6380	6079
40°	6702	6119	5747
45°	6508	5829	5384
50°	6313	5511	5006
55°	6089	5211	4601
60°	5860	4843	4167
65°	5595	4415	3667
70°	5289	3880	3166
75°	4868	3272	2631
80°	4288	2573	2216
85°	3610	2112	1978



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	4.0
10°-20°	119.1	11.1
20°-30°	172.7	16.1
30°-40°	196.8	18.4
40°-50°	191.8	17.9
50°-60°	161.4	15.1
60°-70°	113.1	10.6
70°-80°	58.0	5.4
80°-90°	14.5	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°	334.5	31.3
0°-40°	531.2	49.6
0°-60°	884.4	82.7
0°-90°	1070.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1070.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	453	453	453	453	453	
5°	452	451	447	450	450	43
15°	430	428	421	420	417	121
25°	390	385	372	368	364	179
35°	336	328	312	302	298	210
45°	275	265	246	233	228	212
55°	209	198	179	163	158	187
65°	141	130	112	98	93	140
75°	75	65	51	43	41	80
85°	19	13	11	11	10	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	452.9	452.9	452.9	452.9	452.9
2.5°	453.9	452.9	449.5	452.9	452.5
5°	452.2	450.9	447.1	450.4	449.7
7.5°	448.8	447.4	442.9	445.7	445.0
10°	443.6	442.6	437.8	438.9	437.8
12.5°	437.8	436.4	429.6	430.3	428.6
15°	430.0	427.9	420.7	420.4	417.3
17.5°	421.8	418.7	410.1	408.4	406.0
20°	411.8	408.4	397.5	395.7	392.7
22.5°	400.9	397.5	385.9	382.1	379.6
25°	389.9	384.8	372.1	367.7	364.0
27.5°	377.7	371.4	358.1	352.3	348.6
30°	364.0	357.5	343.1	335.3	332.2
32.5°	350.6	342.8	328.0	319.2	315.1
35°	335.9	327.7	312.3	302.4	297.6
37.5°	321.9	311.9	296.2	284.6	279.8
40°	306.8	296.6	280.1	267.1	263.1
42.5°	291.0	280.5	263.3	251.1	244.5
45°	275.0	265.2	246.3	232.6	227.5
47.5°	258.2	248.0	229.1	215.2	209.3
50°	242.5	231.2	211.7	197.4	192.3
52.5°	225.4	213.8	195.6	179.9	174.7
55°	208.7	197.7	178.6	163.2	157.7
57.5°	191.6	179.9	161.5	146.4	141.6
60°	175.1	163.2	144.7	129.6	124.5
62.5°	157.7	146.4	127.6	113.9	108.8
65°	141.3	129.6	111.5	97.8	92.6
67.5°	124.8	113.3	95.7	82.8	78.7
70°	108.1	96.4	79.3	68.7	64.7
72.5°	91.7	80.4	64.7	55.1	52.7
75°	75.3	65.0	50.6	43.1	40.7
77.5°	58.4	50.3	38.3	32.6	30.5
80°	44.5	36.3	26.7	23.6	23.0
82.5°	30.8	23.6	17.8	16.7	16.4
85°	18.8	12.6	11.0	10.6	10.3
87.5°	7.9	5.5	5.1	5.1	4.8
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)