

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: P888104

Luminaire Tested: **DPT5-4F029-61S27-A-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: P888104
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: DPT5-4F029-61S27-A-XX-UDD
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

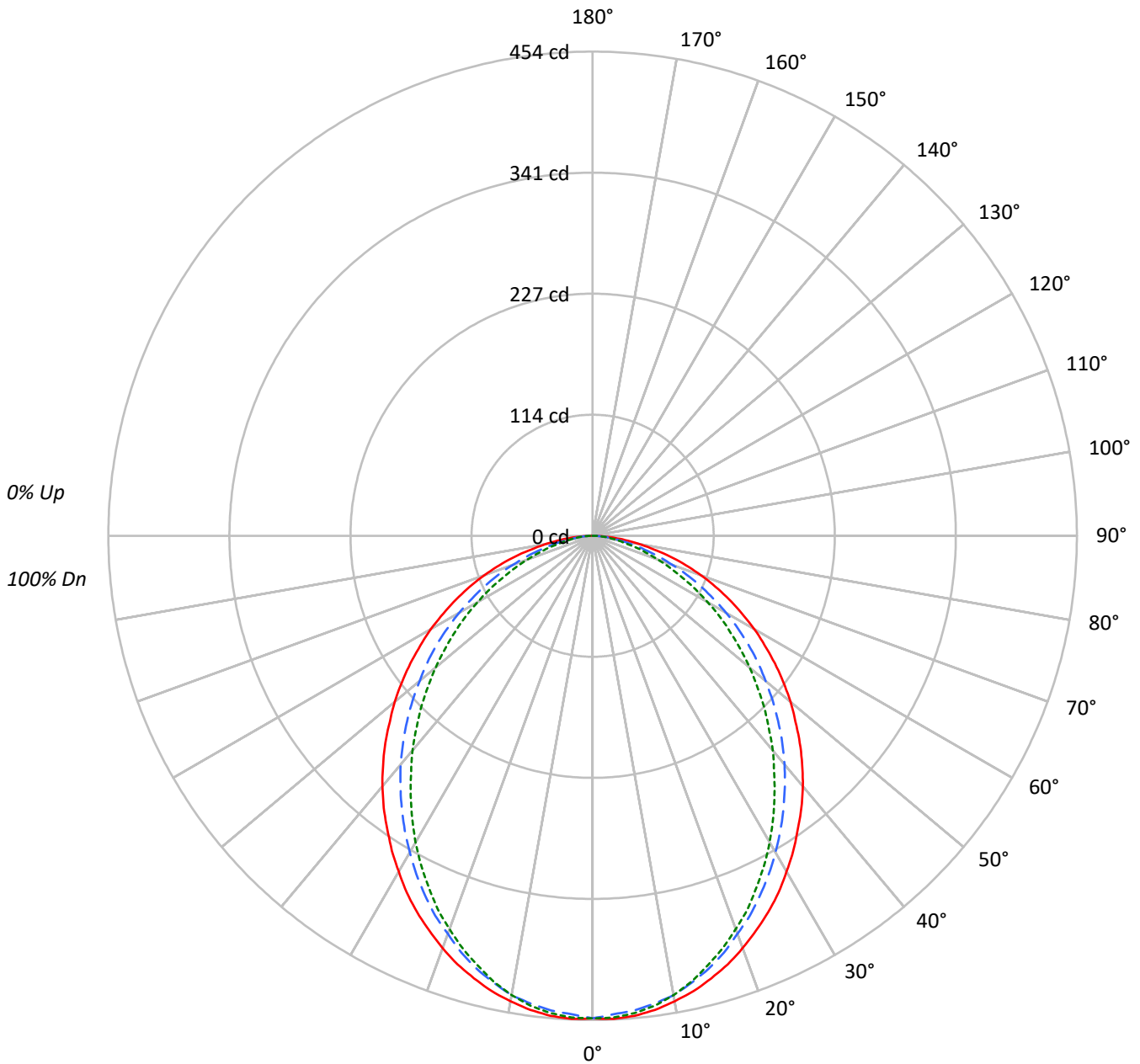
Lumens per Lamp: N/A
Luminaire Lumens: 1069.0 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 11.5
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°	5389	5389	5389
5°	5401	5340	5371
10°	5360	5290	5290
15°	5297	5182	5140
20°	5214	5033	4972
25°	5118	4886	4778
30°	5000	4714	4564
35°	4879	4536	4322
40°	4767	4352	4086
45°	4627	4143	3828
50°	4489	3919	3559
55°	4329	3704	3272
60°	4168	3442	2963
65°	3979	3139	2610
70°	3761	2758	2249
75°	3460	2328	1873
80°	3045	1831	1571
85°	2569	1503	1407



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	4.0
10°-20°	119.0	11.1
20°-30°	172.6	16.1
30°-40°	196.6	18.4
40°-50°	191.6	17.9
50°-60°	161.2	15.1
60°-70°	113.0	10.6
70°-80°	57.9	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°	334.1	31.3
0°-40°	530.7	49.6
0°-60°	883.6	82.7
0°-90°	1069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1069.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	452	452	452	452	452	
5°	452	450	447	450	449	43
15°	430	428	420	420	417	121
25°	390	384	372	367	364	179
35°	336	327	312	302	297	210
45°	275	265	246	232	227	212
55°	208	198	178	163	158	186
65°	141	130	111	98	93	140
75°	75	65	51	43	41	79
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°	452.5	452.5	452.5	452.5	452.5
2.5°	453.5	452.5	449.1	452.5	452.1
5°	451.8	450.5	446.7	450.0	449.3
7.5°	448.4	447.0	442.5	445.3	444.6
10°	443.2	442.2	437.4	438.5	437.4
12.5°	437.4	436.0	429.2	429.9	428.2
15°	429.6	427.5	420.3	420.0	416.9
17.5°	421.4	418.3	409.7	408.0	405.6
20°	411.4	408.0	397.1	395.4	392.3
22.5°	400.5	397.1	385.5	381.7	379.3
25°	389.5	384.4	371.8	367.4	363.6
27.5°	377.3	371.1	357.8	352.0	348.3
30°	363.6	357.1	342.8	335.0	331.9
32.5°	350.2	342.4	327.7	318.9	314.8
35°	335.6	327.4	312.0	302.1	297.3
37.5°	321.6	311.6	295.9	284.4	279.5
40°	306.6	296.3	279.9	266.9	262.8
42.5°	290.8	280.2	263.1	250.8	244.3
45°	274.7	264.9	246.0	232.4	227.3
47.5°	257.9	247.8	228.9	215.0	209.1
50°	242.3	231.0	211.5	197.2	192.1
52.5°	225.2	213.6	195.4	179.7	174.6
55°	208.5	197.5	178.4	163.0	157.6
57.5°	191.4	179.7	161.3	146.2	141.5
60°	175.0	163.0	144.5	129.5	124.4
62.5°	157.6	146.2	127.5	113.8	108.7
65°	141.2	129.5	111.4	97.7	92.6
67.5°	124.7	113.2	95.7	82.7	78.7
70°	108.0	96.4	79.2	68.7	64.6
72.5°	91.6	80.3	64.6	55.0	52.7
75°	75.2	64.9	50.6	43.1	40.7
77.5°	58.4	50.2	38.2	32.5	30.4
80°	44.4	36.3	26.7	23.6	22.9
82.5°	30.7	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)