

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: P888093

Luminaire Tested: **DPT5-4F029-37S27-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: P888093
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: DPT5-4F029-37S27-A-XX-UDD
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

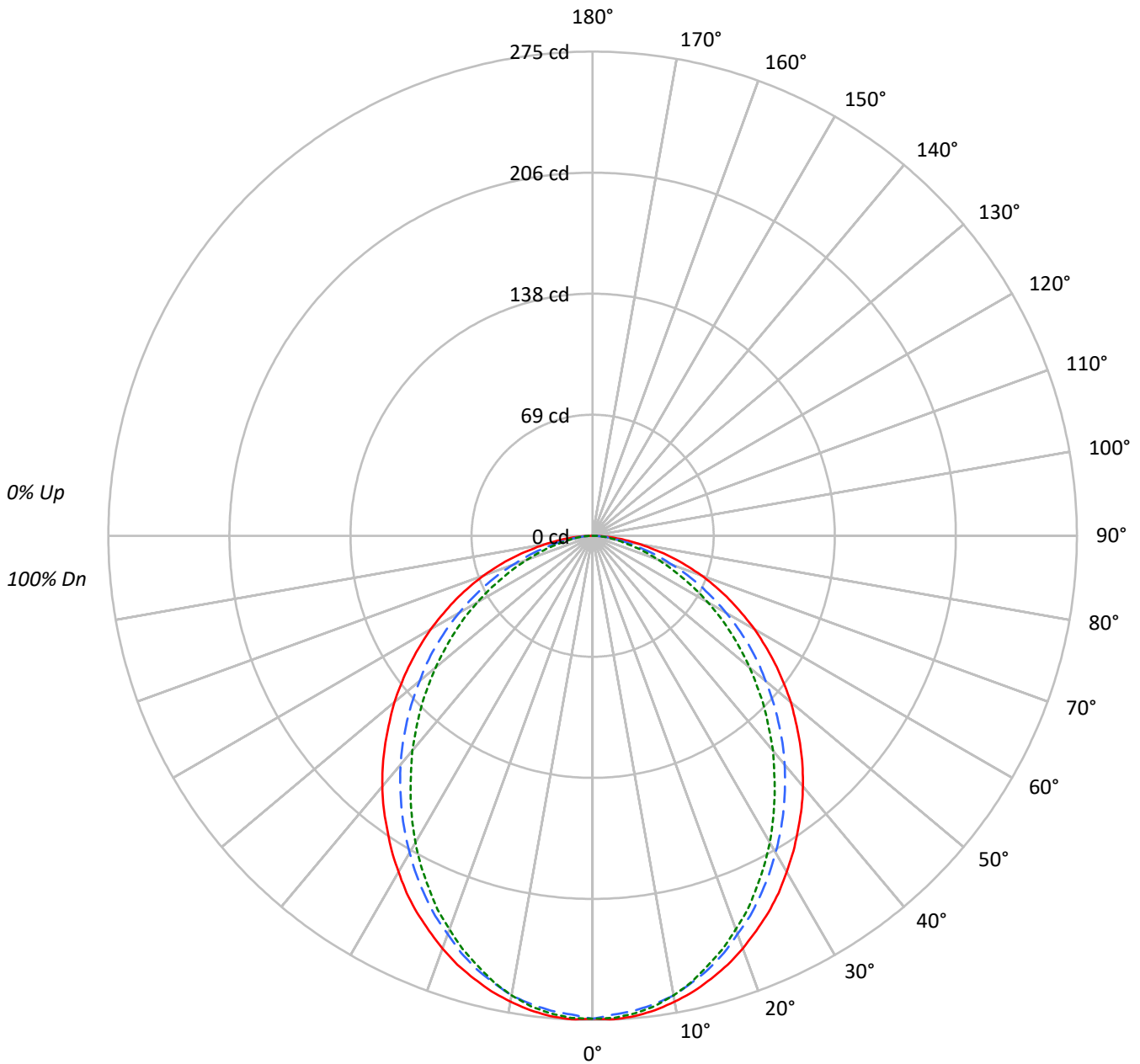
Lumens per Lamp: N/A
Luminaire Lumens: 648.0 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 7
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°	3267	3267	3267
5°	3275	3237	3257
10°	3249	3206	3206
15°	3211	3142	3116
20°	3161	3051	3014
25°	3103	2962	2896
30°	3031	2858	2767
35°	2957	2749	2620
40°	2889	2638	2477
45°	2804	2511	2321
50°	2722	2375	2157
55°	2625	2247	1983
60°	2527	2087	1796
65°	2412	1905	1581
70°	2281	1671	1365
75°	2098	1413	1137
80°	1845	1111	953
85°	1558	902	847



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.8	4.0
10°-20°	72.1	11.1
20°-30°	104.6	16.1
30°-40°	119.2	18.4
40°-50°	116.2	17.9
50°-60°	97.7	15.1
60°-70°	68.5	10.6
70°-80°	35.1	5.4
80°-90°	8.8	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°	202.5	31.3
0°-40°	321.7	49.6
0°-60°	535.6	82.7
0°-90°	648.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	648.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	274	274	274	274	274	
5°	274	273	271	273	272	26
15°	260	259	255	255	253	73
25°	236	233	225	223	220	109
35°	203	198	189	183	180	127
45°	166	161	149	141	138	128
55°	126	120	108	99	96	113
65°	86	78	68	59	56	85
75°	46	39	31	26	25	48
85°	11	8	7	6	6	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	274.3	274.3	274.3	274.3	274.3
2.5°	274.9	274.3	272.2	274.3	274.1
5°	273.9	273.1	270.8	272.8	272.4
7.5°	271.8	270.9	268.3	269.9	269.5
10°	268.7	268.1	265.1	265.8	265.1
12.5°	265.1	264.3	260.1	260.6	259.6
15°	260.4	259.1	254.8	254.6	252.7
17.5°	255.4	253.6	248.3	247.3	245.9
20°	249.4	247.3	240.7	239.7	237.8
22.5°	242.8	240.7	233.7	231.4	229.9
25°	236.1	233.0	225.4	222.7	220.4
27.5°	228.7	224.9	216.9	213.4	211.1
30°	220.4	216.5	207.8	203.0	201.2
32.5°	212.3	207.6	198.7	193.3	190.8
35°	203.4	198.5	189.1	183.1	180.2
37.5°	194.9	188.9	179.4	172.4	169.4
40°	185.8	179.6	169.7	161.8	159.3
42.5°	176.3	169.8	159.5	152.1	148.1
45°	166.5	160.6	149.1	140.9	137.8
47.5°	156.4	150.2	138.8	130.3	126.8
50°	146.9	140.0	128.2	119.5	116.4
52.5°	136.5	129.5	118.5	108.9	105.8
55°	126.4	119.7	108.2	98.8	95.5
57.5°	116.0	108.9	97.8	88.6	85.8
60°	106.1	98.8	87.6	78.5	75.4
62.5°	95.5	88.6	77.3	69.0	65.9
65°	85.6	78.5	67.6	59.2	56.1
67.5°	75.6	68.6	58.0	50.1	47.7
70°	65.5	58.4	48.0	41.6	39.2
72.5°	55.5	48.7	39.2	33.4	31.9
75°	45.6	39.3	30.7	26.1	24.7
77.5°	35.4	30.4	23.2	19.7	18.4
80°	26.9	22.0	16.2	14.3	13.9
82.5°	18.6	14.3	10.8	10.1	10.0
85°	11.4	7.6	6.6	6.4	6.2
87.5°	4.8	3.3	3.1	3.1	2.9
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)