

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: P888085

Luminaire Tested: **DPT5-4F029-127S40-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: P888085
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: DPT5-4F029-127S40-A-XX-UDD
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

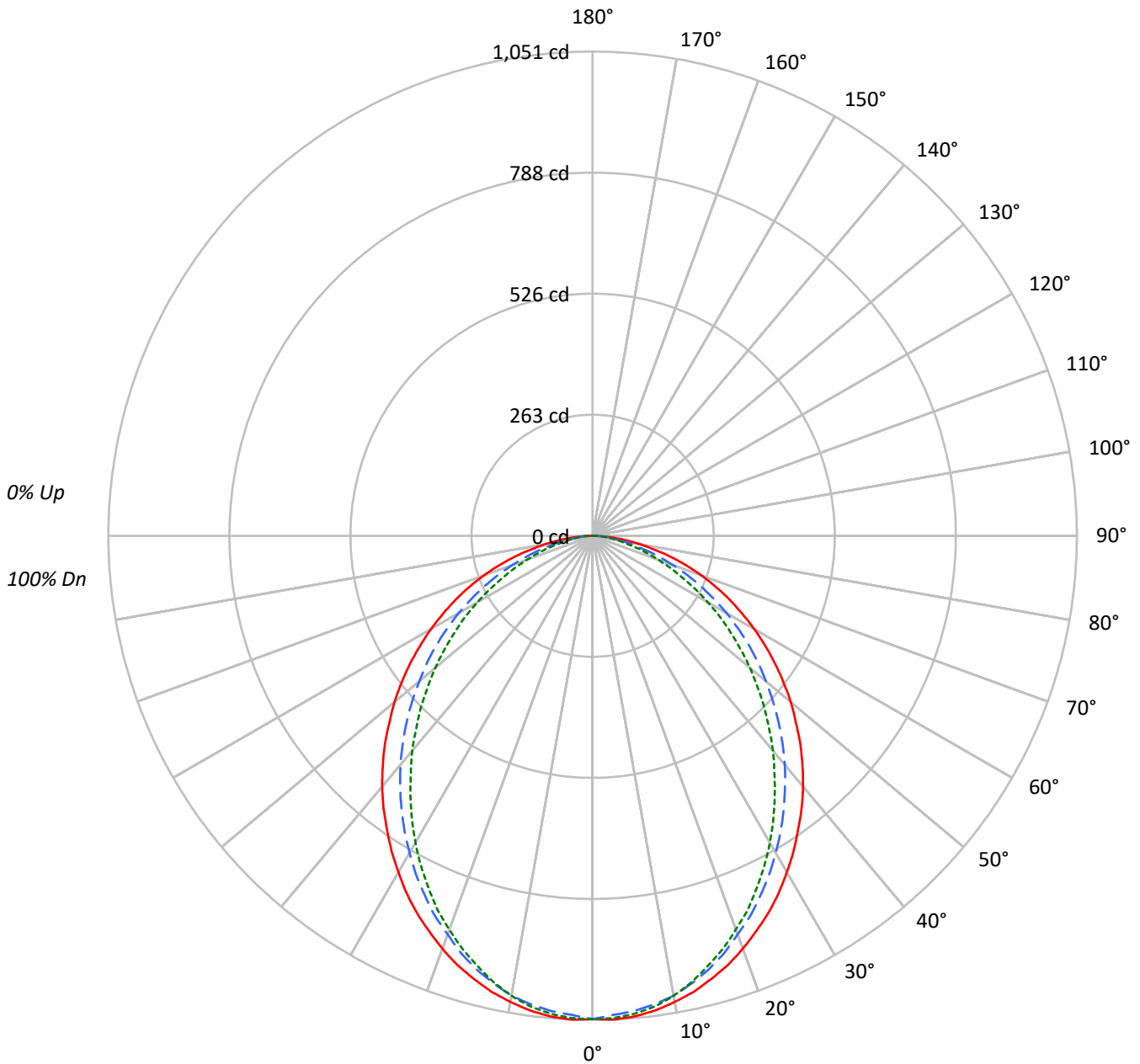
Lumens per Lamp: N/A
Luminaire Lumens: 2478.0 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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°	12492	12492	12492
5°	12521	12378	12451
10°	12425	12261	12261
15°	12278	12012	11917
20°	12087	11666	11526
25°	11866	11325	11076
30°	11592	10926	10579
35°	11310	10516	10020
40°	11048	10087	9471
45°	10727	9605	8873
50°	10405	9086	8249
55°	10035	8588	7585
60°	9661	7979	6867
65°	9221	7279	6045
70°	8719	6397	5213
75°	8020	5398	4339
80°	7064	4245	3649
85°	5944	3471	3252



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.7	4.0
10°-20°	275.9	11.1
20°-30°	400.0	16.1
30°-40°	455.7	18.4
40°-50°	444.2	17.9
50°-60°	373.8	15.1
60°-70°	261.9	10.6
70°-80°	134.3	5.4
80°-90°	33.5	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°	774.6	31.3
0°-40°	1230.3	49.6
0°-60°	2048.3	82.7
0°-90°	2478.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2478.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1049	1049	1049	1049	1049	
5°	1047	1044	1035	1043	1042	99
15°	996	991	974	974	966	281
25°	903	891	862	852	843	416
35°	778	759	723	700	689	487
45°	637	614	570	539	527	491
55°	483	458	414	378	365	432
65°	327	300	258	226	214	324
75°	174	150	117	100	94	184
85°	44	29	25	24	24	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1048.9	1048.9	1048.9	1048.9	1048.9
2.5°	1051.2	1048.9	1041.0	1048.9	1048.0
5°	1047.3	1044.2	1035.4	1043.2	1041.5
7.5°	1039.3	1036.1	1025.8	1032.1	1030.7
10°	1027.4	1025.1	1013.9	1016.4	1013.9
12.5°	1013.9	1010.7	994.8	996.4	992.6
15°	995.8	991.0	974.2	973.5	966.5
17.5°	976.7	969.7	949.7	945.9	940.3
20°	953.7	945.9	920.5	916.5	909.4
22.5°	928.4	920.5	893.7	884.9	879.2
25°	903.0	891.1	861.8	851.5	842.9
27.5°	874.6	860.2	829.4	816.0	807.3
30°	842.9	827.9	794.5	776.5	769.3
32.5°	811.9	793.8	759.7	739.1	729.7
35°	777.9	759.0	723.3	700.3	689.2
37.5°	745.4	722.4	685.9	659.2	647.9
40°	710.6	686.8	648.8	618.6	609.2
42.5°	674.0	649.5	609.8	581.5	566.3
45°	636.9	614.1	570.3	538.7	526.8
47.5°	597.9	574.4	530.6	498.3	484.8
50°	561.6	535.5	490.4	457.1	445.2
52.5°	521.9	495.2	453.0	416.6	404.7
55°	483.3	457.9	413.6	377.9	365.3
57.5°	443.6	416.6	374.0	339.0	328.0
60°	405.6	377.9	335.0	300.2	288.3
62.5°	365.3	339.0	295.5	263.8	251.9
65°	327.2	300.2	258.3	226.4	214.5
67.5°	289.0	262.3	221.7	191.8	182.4
70°	250.4	223.4	183.7	159.1	149.7
72.5°	212.3	186.2	149.7	127.5	122.1
75°	174.3	150.5	117.3	99.9	94.3
77.5°	135.3	116.4	88.6	75.4	70.5
80°	103.0	84.1	61.9	54.7	53.2
82.5°	71.3	54.7	41.3	38.6	38.1
85°	43.5	29.2	25.4	24.5	23.8
87.5°	18.4	12.6	11.9	11.9	11.0
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)