

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: P888327

Luminaire Tested: **DPT5-4F021-61S40-F-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: P888327
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: DPT5-4F021-61S40-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

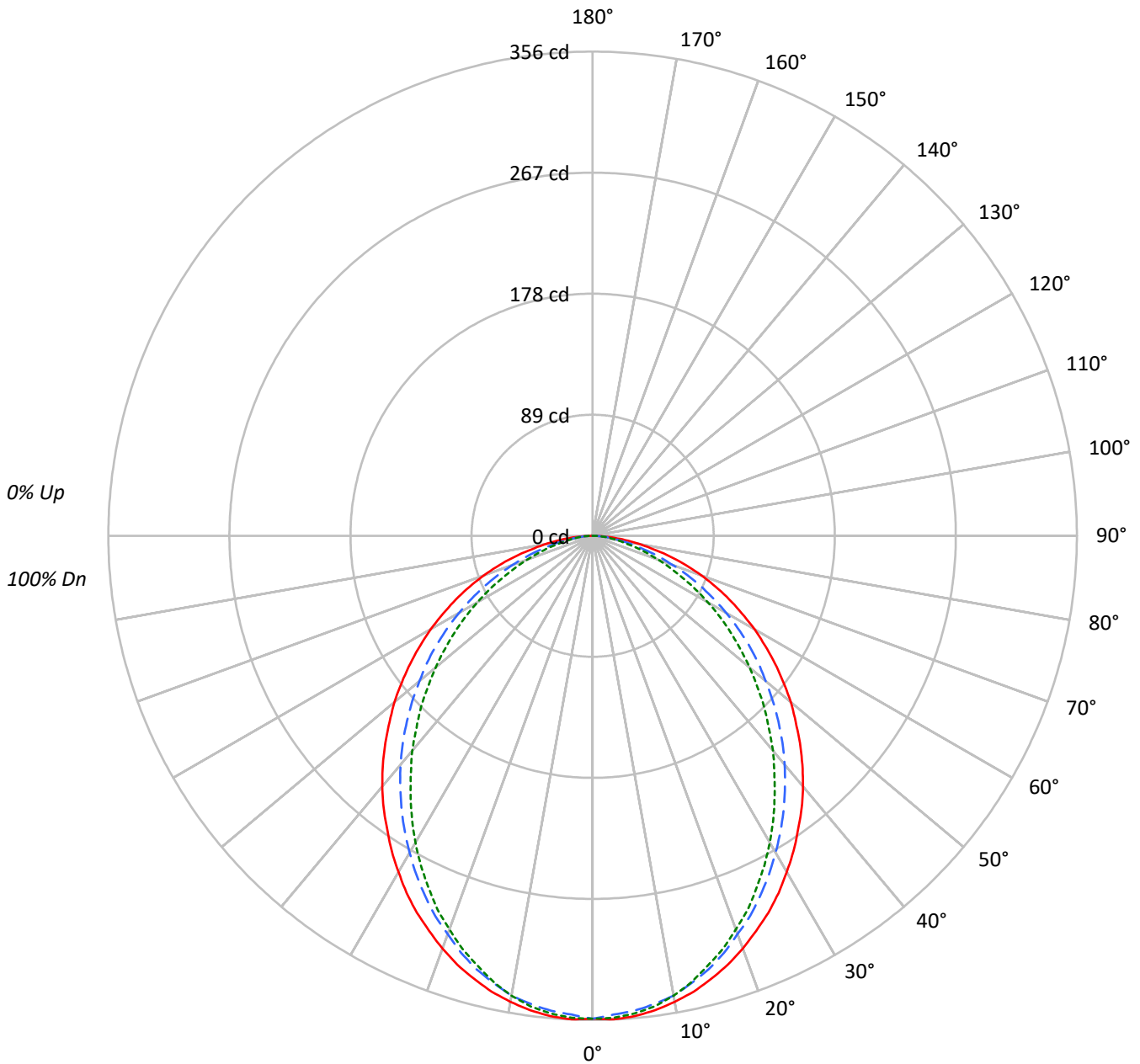
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 839.0 lumens
Efficiency: N/A
Efficacy: 102.3 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°	5942	5942	5942
5°	5956	5889	5923
10°	5911	5833	5833
15°	5842	5715	5668
20°	5750	5549	5483
25°	5644	5388	5270
30°	5515	5198	5034
35°	5381	5003	4766
40°	5256	4799	4506
45°	5102	4570	4222
50°	4951	4321	3923
55°	4773	4087	3609
60°	4595	3795	3266
65°	4387	3465	2875
70°	4149	3043	2481
75°	3815	2567	2062
80°	3363	2014	1735
85°	2822	1651	1555



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.4	4.0
10°-20°	93.4	11.1
20°-30°	135.4	16.1
30°-40°	154.3	18.4
40°-50°	150.4	17.9
50°-60°	126.6	15.1
60°-70°	88.7	10.6
70°-80°	45.5	5.4
80°-90°	11.3	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°	262.2	31.3
0°-40°	416.5	49.6
0°-60°	693.5	82.7
0°-90°	839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	839.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	355	355	355	355	355	
5°	355	354	351	353	353	34
15°	337	336	330	330	327	95
25°	306	302	292	288	285	141
35°	263	257	245	237	233	165
45°	216	208	193	182	178	166
55°	164	155	140	128	124	146
65°	111	102	88	77	73	110
75°	59	51	40	34	32	62
85°	15	10	9	8	8	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	355.1	355.1	355.1	355.1	355.1
2.5°	355.9	355.1	352.4	355.1	354.8
5°	354.6	353.5	350.6	353.2	352.6
7.5°	351.9	350.8	347.3	349.5	349.0
10°	347.9	347.1	343.3	344.1	343.3
12.5°	343.3	342.2	336.8	337.4	336.1
15°	337.2	335.5	329.9	329.6	327.2
17.5°	330.7	328.3	321.5	320.3	318.4
20°	322.9	320.3	311.6	310.3	307.9
22.5°	314.3	311.6	302.6	299.6	297.7
25°	305.7	301.7	291.8	288.3	285.4
27.5°	296.1	291.2	280.8	276.3	273.3
30°	285.4	280.3	269.0	262.9	260.5
32.5°	274.9	268.8	257.2	250.3	247.1
35°	263.4	257.0	244.9	237.1	233.3
37.5°	252.4	244.6	232.2	223.2	219.4
40°	240.6	232.5	219.7	209.5	206.3
42.5°	228.2	219.9	206.5	196.9	191.7
45°	215.6	207.9	193.1	182.4	178.4
47.5°	202.4	194.5	179.7	168.7	164.1
50°	190.2	181.3	166.0	154.8	150.7
52.5°	176.7	167.7	153.4	141.0	137.0
55°	163.6	155.0	140.1	128.0	123.7
57.5°	150.2	141.0	126.6	114.8	111.0
60°	137.3	128.0	113.4	101.6	97.6
62.5°	123.7	114.8	100.1	89.3	85.3
65°	110.8	101.6	87.5	76.7	72.6
67.5°	97.9	88.8	75.1	64.9	61.7
70°	84.8	75.6	62.2	53.9	50.7
72.5°	71.9	63.0	50.7	43.2	41.3
75°	59.0	50.9	39.7	33.8	31.9
77.5°	45.8	39.4	30.0	25.5	23.9
80°	34.9	28.5	20.9	18.5	18.0
82.5°	24.1	18.5	14.0	13.1	12.9
85°	14.7	9.9	8.6	8.3	8.1
87.5°	6.2	4.3	4.0	4.0	3.7
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)