

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: P888536

Luminaire Tested: **DPT5-6FO55-37S40-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: P888536
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: DPT5-6FO55-37S40-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

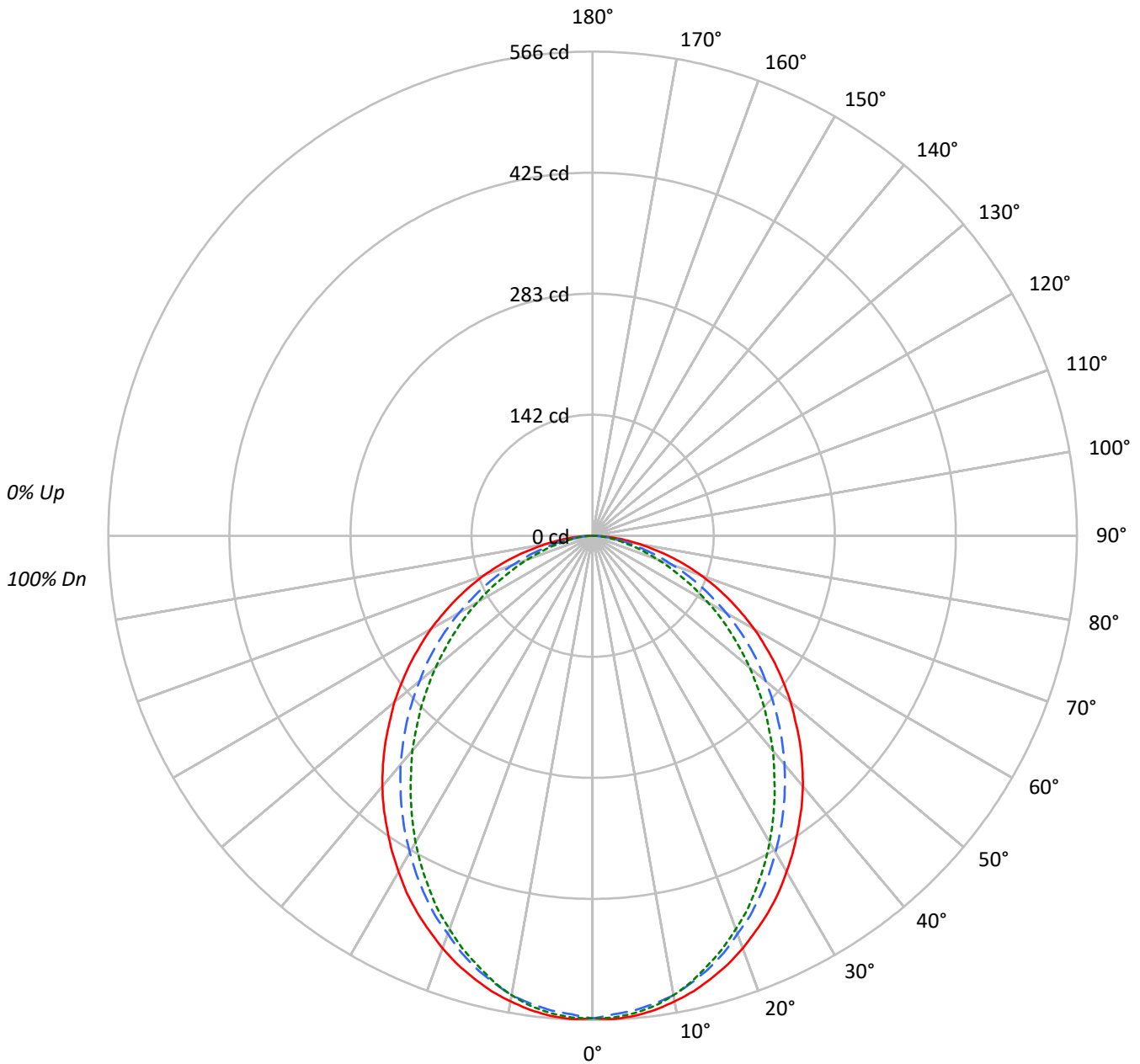
Lumens per Lamp: N/A
Luminaire Lumens: 1333.0 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 4.31' x H: 0')
CIE Type: Direct

Input Watts (W): 13.1
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°	3603	3603	3603
5°	3612	3571	3592
10°	3584	3537	3537
15°	3542	3465	3437
20°	3486	3365	3325
25°	3422	3267	3195
30°	3343	3152	3051
35°	3263	3034	2890
40°	3187	2910	2732
45°	3094	2771	2560
50°	3001	2621	2380
55°	2895	2477	2188
60°	2787	2302	1981
65°	2660	2100	1744
70°	2515	1845	1503
75°	2312	1557	1251
80°	2037	1225	1052
85°	1715	1004	938



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	4.0
10°-20°	148.4	11.1
20°-30°	215.2	16.1
30°-40°	245.1	18.4
40°-50°	238.9	17.9
50°-60°	201.1	15.1
60°-70°	140.9	10.6
70°-80°	72.2	5.4
80°-90°	18.0	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°	416.7	31.3
0°-40°	661.8	49.6
0°-60°	1101.8	82.7
0°-90°	1333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1333.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	564	564	564	564	564	
5°	563	562	557	561	560	53
15°	536	533	524	524	520	151
25°	486	479	464	458	453	224
35°	418	408	389	377	371	262
45°	343	330	307	290	283	264
55°	260	246	222	203	196	232
65°	176	162	139	122	115	174
75°	94	81	63	54	51	99
85°	23	16	14	13	13	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	564.2	564.2	564.2	564.2	564.2
2.5°	565.5	564.2	560.0	564.2	563.8
5°	563.4	561.7	557.0	561.1	560.3
7.5°	559.1	557.4	551.8	555.2	554.4
10°	552.7	551.4	545.4	546.8	545.4
12.5°	545.4	543.7	535.1	536.0	534.0
15°	535.7	533.1	524.1	523.7	519.9
17.5°	525.4	521.6	510.9	508.8	505.8
20°	513.0	508.8	495.1	493.0	489.2
22.5°	499.4	495.1	480.8	476.0	472.9
25°	485.7	479.3	463.6	458.1	453.4
27.5°	470.5	462.7	446.1	438.9	434.3
30°	453.4	445.3	427.4	417.7	413.8
32.5°	436.7	427.0	408.7	397.6	392.5
35°	418.5	408.3	389.1	376.7	370.7
37.5°	401.0	388.6	369.0	354.6	348.5
40°	382.3	369.5	349.0	332.8	327.7
42.5°	362.6	349.4	328.0	312.8	304.6
45°	342.6	330.3	306.8	289.8	283.4
47.5°	321.6	309.0	285.4	268.0	260.8
50°	302.1	288.0	263.8	245.9	239.5
52.5°	280.8	266.4	243.7	224.1	217.7
55°	260.0	246.3	222.5	203.3	196.5
57.5°	238.6	224.1	201.2	182.4	176.4
60°	218.2	203.3	180.2	161.5	155.1
62.5°	196.5	182.4	159.0	141.9	135.5
65°	176.0	161.5	139.0	121.8	115.4
67.5°	155.5	141.1	119.3	103.2	98.1
70°	134.7	120.2	98.8	85.6	80.5
72.5°	114.2	100.2	80.5	68.6	65.7
75°	93.7	80.9	63.1	53.8	50.7
77.5°	72.8	62.6	47.7	40.6	37.9
80°	55.4	45.2	33.3	29.4	28.6
82.5°	38.3	29.4	22.2	20.8	20.5
85°	23.4	15.7	13.7	13.2	12.8
87.5°	9.9	6.8	6.4	6.4	5.9
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)