

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: P888503

Luminaire Tested: **DPT5-6FO44-85S40-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: P888503
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: DPT5-6FO44-85S40-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

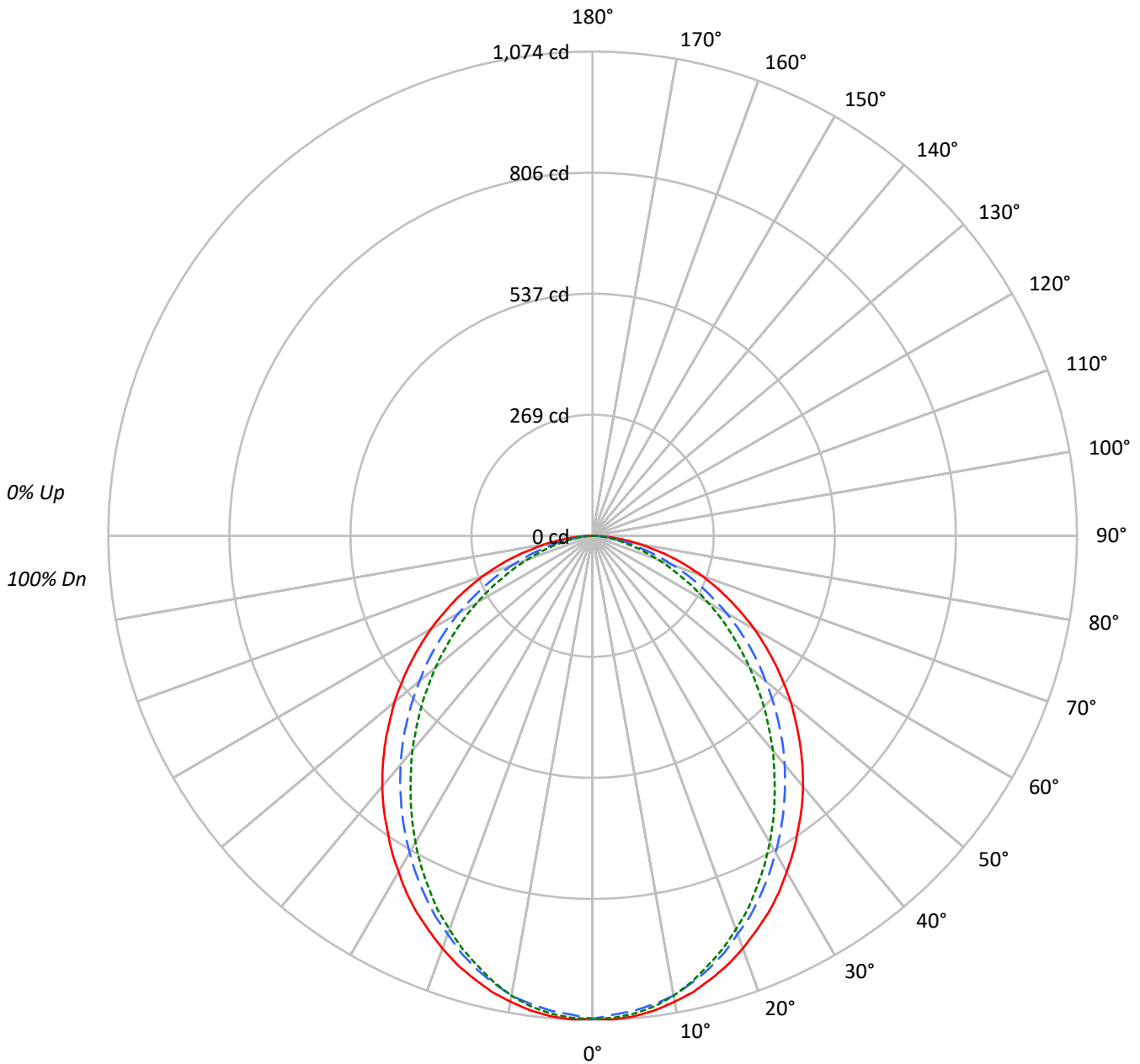
Lumens per Lamp: N/A
Luminaire Lumens: 2531.0 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')
CIE Type: Direct

Input Watts (W): 24.8
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°	8282	8282	8282
5°	8301	8207	8255
10°	8238	8130	8130
15°	8140	7964	7900
20°	8014	7734	7642
25°	7867	7509	7343
30°	7685	7244	7014
35°	7499	6972	6643
40°	7325	6687	6280
45°	7112	6368	5883
50°	6899	6023	5470
55°	6653	5695	5029
60°	6404	5291	4553
65°	6113	4827	4008
70°	5780	4240	3456
75°	5317	3578	2879
80°	4683	2814	2417
85°	3938	2306	2155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.8	4.0
10°-20°	281.8	11.1
20°-30°	408.5	16.1
30°-40°	465.5	18.4
40°-50°	453.7	17.9
50°-60°	381.8	15.1
60°-70°	267.5	10.6
70°-80°	137.2	5.4
80°-90°	34.2	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°	791.1	31.3
0°-40°	1256.6	49.6
0°-60°	2092.0	82.7
0°-90°	2531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2531.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1071	1071	1071	1071	1071	
5°	1070	1066	1058	1066	1064	101
15°	1017	1012	995	994	987	287
25°	922	910	880	870	861	424
35°	795	775	739	715	704	498
45°	650	627	582	550	538	502
55°	494	468	422	386	373	441
65°	334	307	264	231	219	331
75°	178	154	120	102	96	188
85°	44	30	26	25	24	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1071.3	1071.3	1071.3	1071.3	1071.3
2.5°	1073.7	1071.3	1063.2	1071.3	1070.4
5°	1069.7	1066.5	1057.5	1065.5	1063.8
7.5°	1061.6	1058.3	1047.8	1054.2	1052.7
10°	1049.4	1047.0	1035.6	1038.2	1035.6
12.5°	1035.6	1032.3	1016.1	1017.7	1013.8
15°	1017.1	1012.2	995.1	994.3	987.1
17.5°	997.6	990.4	970.0	966.1	960.4
20°	974.1	966.1	940.1	936.1	928.9
22.5°	948.2	940.1	912.8	903.8	898.0
25°	922.3	910.1	880.3	869.8	860.9
27.5°	893.3	878.6	847.1	833.4	824.6
30°	860.9	845.6	811.5	793.1	785.7
32.5°	829.2	810.8	775.9	754.9	745.3
35°	794.6	775.2	738.7	715.3	703.9
37.5°	761.4	737.8	700.6	673.3	661.7
40°	725.8	701.5	662.6	631.9	622.3
42.5°	688.4	663.4	622.9	593.9	578.4
45°	650.5	627.2	582.5	550.2	538.1
47.5°	610.7	586.7	542.0	508.9	495.1
50°	573.6	546.9	500.8	466.9	454.8
52.5°	533.1	505.8	462.7	425.5	413.3
55°	493.6	467.7	422.5	386.0	373.1
57.5°	453.1	425.5	382.0	346.3	335.0
60°	414.2	386.0	342.2	306.6	294.5
62.5°	373.1	346.3	301.8	269.4	257.2
65°	334.2	306.6	263.9	231.3	219.1
67.5°	295.2	267.9	226.5	195.9	186.3
70°	255.7	228.1	187.6	162.5	152.9
72.5°	216.9	190.2	152.9	130.3	124.7
75°	178.0	153.7	119.8	102.1	96.4
77.5°	138.2	118.9	90.5	77.0	72.0
80°	105.2	85.8	63.2	55.8	54.3
82.5°	72.8	55.8	42.2	39.5	38.9
85°	44.4	29.9	26.0	25.1	24.3
87.5°	18.8	12.9	12.2	12.2	11.3
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)