

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: P888529

Luminaire Tested: **DPT5-6FO55-127V60-F-XX-UDD_4000K**

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: P888529
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: DPT5-6FO55-127V60-F-XX-UDD_4000K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

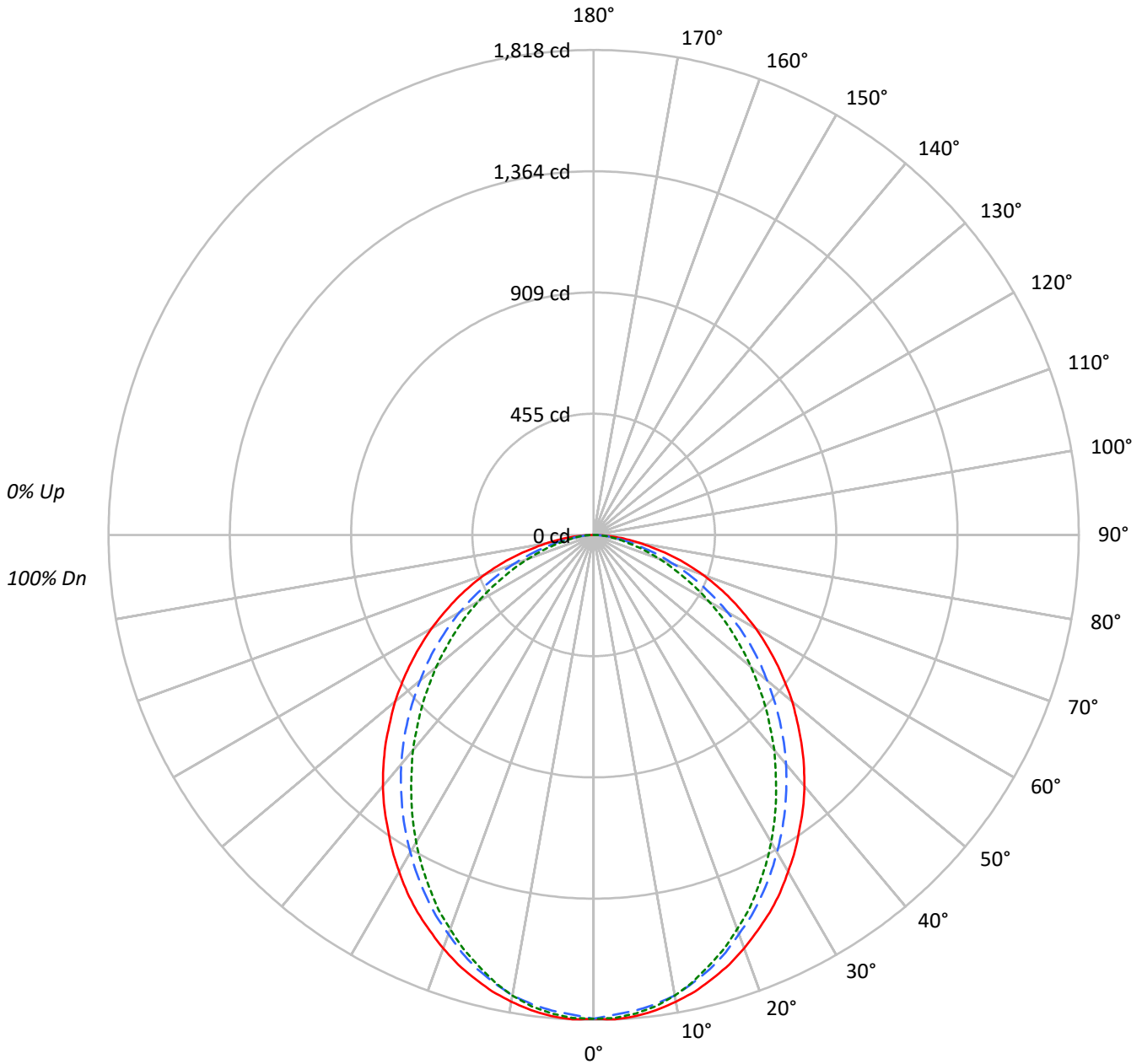
Lumens per Lamp: N/A
Luminaire Lumens: 4285.0 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 4.31' x H: 0')
CIE Type: Direct

Input Watts (W): 45
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°	11583	11583	11583
5°	11610	11478	11546
10°	11522	11370	11370
15°	11385	11139	11049
20°	11208	10817	10688
25°	11002	10501	10270
30°	10748	10132	9809
35°	10488	9751	9291
40°	10244	9352	8783
45°	9947	8907	8227
50°	9649	8424	7649
55°	9305	7964	7033
60°	8957	7399	6367
65°	8551	6750	5606
70°	8085	5930	4834
75°	7437	5004	4024
80°	6550	3935	3384
85°	5510	3224	3019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.7	4.0
10°-20°	477.0	11.1
20°-30°	691.7	16.1
30°-40°	788.0	18.4
40°-50°	768.1	17.9
50°-60°	646.4	15.1
60°-70°	453.0	10.6
70°-80°	232.2	5.4
80°-90°	57.9	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°	1339.4	31.3
0°-40°	2127.4	49.6
0°-60°	3541.9	82.7
0°-90°	4285.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4285.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1814	1814	1814	1814	1814	
5°	1811	1806	1790	1804	1801	172
15°	1722	1714	1685	1683	1671	486
25°	1561	1541	1490	1472	1458	719
35°	1345	1312	1251	1211	1192	842
45°	1101	1062	986	932	911	849
55°	836	792	715	654	632	747
65°	566	519	447	392	371	560
75°	301	260	203	173	163	319
85°	75	51	44	42	41	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1813.8	1813.8	1813.8	1813.8	1813.8
2.5°	1817.8	1813.8	1800.0	1813.8	1812.2
5°	1811.0	1805.6	1790.4	1803.8	1801.0
7.5°	1797.2	1791.6	1773.9	1784.8	1782.2
10°	1776.7	1772.6	1753.3	1757.6	1753.3
12.5°	1753.3	1747.7	1720.2	1723.0	1716.4
15°	1722.0	1713.6	1684.7	1683.4	1671.2
17.5°	1689.0	1676.8	1642.2	1635.6	1626.0
20°	1649.1	1635.6	1591.7	1584.8	1572.6
22.5°	1605.4	1591.7	1545.4	1530.2	1520.3
25°	1561.4	1540.9	1490.3	1472.5	1457.5
27.5°	1512.4	1487.5	1434.1	1411.0	1396.0
30°	1457.5	1431.6	1373.9	1342.7	1330.2
32.5°	1403.9	1372.6	1313.7	1278.1	1261.9
35°	1345.2	1312.4	1250.7	1211.0	1191.7
37.5°	1289.0	1249.1	1186.1	1139.9	1120.3
40°	1228.8	1187.7	1121.8	1069.8	1053.5
42.5°	1165.5	1123.1	1054.5	1005.5	979.3
45°	1101.3	1061.9	986.2	931.5	910.9
47.5°	1033.9	993.3	917.5	861.6	838.3
50°	971.2	925.9	847.9	790.5	769.9
52.5°	902.6	856.3	783.4	720.4	699.8
55°	835.7	791.8	715.3	653.5	631.7
57.5°	767.1	720.4	646.7	586.2	567.1
60°	701.3	653.5	579.3	519.1	498.5
62.5°	631.7	586.2	511.0	456.1	435.5
65°	565.9	519.1	446.7	391.6	371.0
67.5°	499.8	453.6	383.4	331.6	315.3
70°	433.0	386.2	317.6	275.2	258.9
72.5°	367.2	321.9	258.9	220.6	211.2
75°	301.4	260.2	202.8	172.8	163.1
77.5°	234.0	201.2	153.2	130.4	122.0
80°	178.1	145.3	107.0	94.5	92.0
82.5°	123.2	94.5	71.4	66.8	65.8
85°	75.2	50.6	44.0	42.4	41.2
87.5°	31.8	21.9	20.6	20.6	19.1
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)