

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: CORELITE

Report Number: P296890

Luminaire Tested: **D3X-WD-74L93050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-74L93050-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5932.0 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

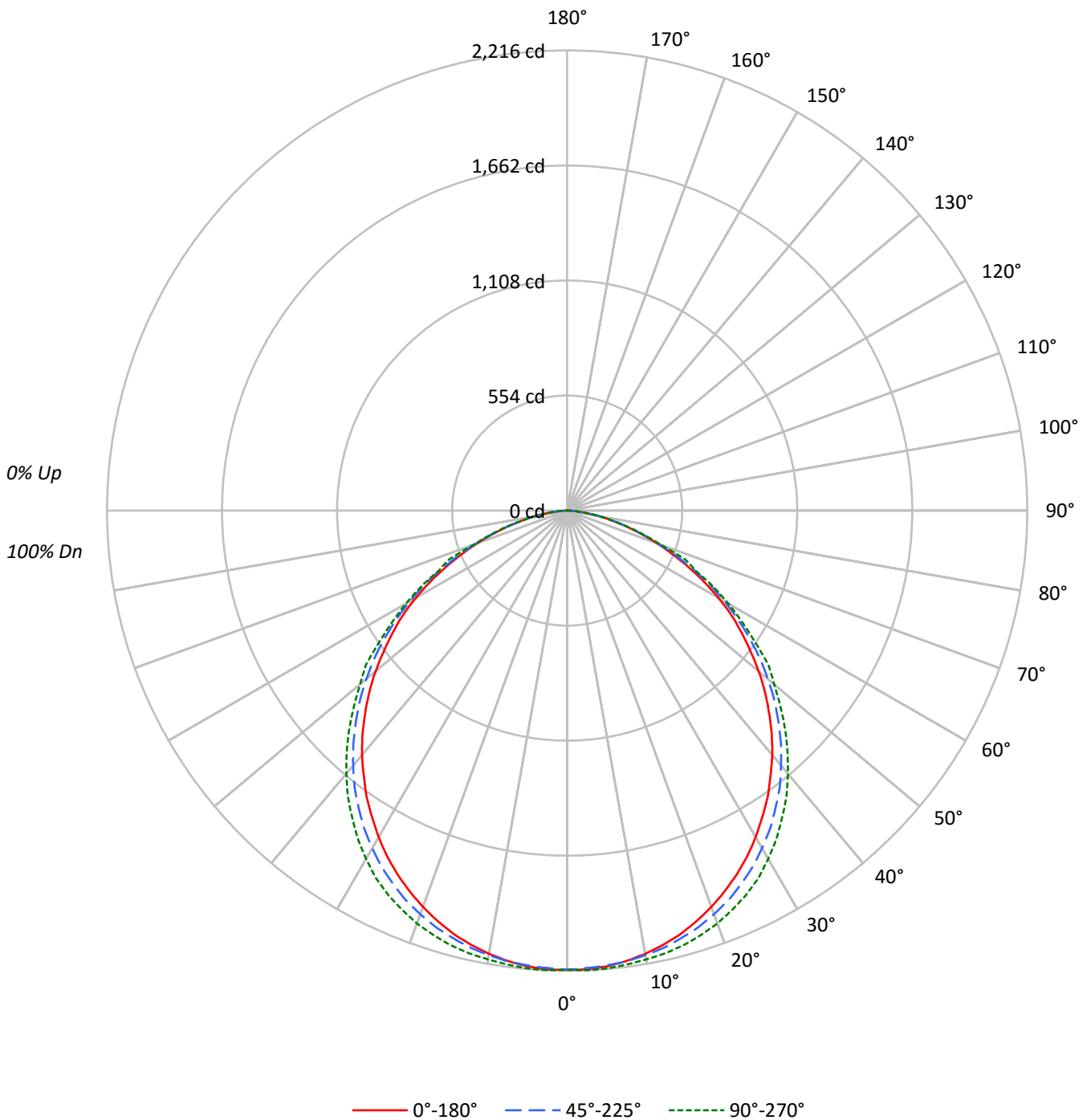
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	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	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2975	2975	2975
5°	2975	2969	2990
10°	2960	2969	2998
15°	2941	2968	3018
20°	2907	2962	3029
25°	2869	2945	3030
30°	2821	2916	3009
35°	2765	2874	2965
40°	2699	2815	2905
45°	2616	2738	2823
50°	2522	2642	2722
55°	2407	2516	2591
60°	2268	2354	2411
65°	2060	2128	2168
70°	1808	1851	1876
75°	1527	1549	1560
80°	1220	1237	1204
85°	821	854	821



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.6	3.5
10°-20°	602.7	10.2
20°-30°	914.4	15.4
30°-40°	1091.7	18.4
40°-50°	1105.3	18.6
50°-60°	955.4	16.1
60°-70°	662.2	11.2
70°-80°	320.4	5.4
80°-90°	70.4	1.2
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°	1726.7	29.1
0°-40°	2818.4	47.5
0°-60°	4879.0	82.2
0°-90°	5932.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5932.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2211	2211	2211	2211	2211	
5°	2203	2201	2199	2209	2214	209
15°	2111	2116	2130	2156	2167	595
25°	1933	1945	1984	2024	2041	890
35°	1684	1698	1750	1794	1805	1052
45°	1375	1394	1439	1475	1484	1060
55°	1026	1036	1073	1117	1105	917
65°	647	653	668	679	681	640
75°	294	296	298	296	300	315
85°	53	58	55	53	53	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2211.4	2211.4	2211.4	2211.4	2211.4
2.5°	2211.4	2209.3	2205.0	2211.4	2215.7
5°	2202.9	2200.8	2198.6	2209.3	2213.5
7.5°	2188.0	2188.0	2190.1	2200.8	2205.0
10°	2166.7	2168.8	2173.1	2190.1	2194.4
12.5°	2141.2	2145.4	2156.1	2175.2	2183.7
15°	2111.4	2115.6	2130.5	2156.1	2166.7
17.5°	2073.1	2081.6	2102.9	2132.7	2143.3
20°	2030.5	2041.1	2068.8	2102.9	2115.6
22.5°	1983.7	1994.3	2030.5	2066.7	2079.4
25°	1932.6	1945.4	1983.7	2024.1	2041.1
27.5°	1877.2	1892.1	1934.7	1977.3	1994.3
30°	1815.5	1832.6	1877.2	1921.9	1936.8
32.5°	1749.5	1766.6	1817.7	1860.2	1875.1
35°	1683.6	1698.5	1749.5	1794.2	1804.9
37.5°	1609.1	1626.1	1681.4	1719.7	1734.6
40°	1536.7	1553.7	1602.7	1641.0	1653.8
42.5°	1458.0	1475.0	1523.9	1560.1	1570.8
45°	1374.9	1394.1	1438.8	1475.0	1483.5
47.5°	1291.9	1306.8	1353.7	1385.6	1392.0
50°	1204.7	1219.6	1262.1	1294.1	1300.5
52.5°	1113.2	1136.6	1170.6	1194.0	1221.7
55°	1025.9	1036.5	1072.7	1117.4	1104.6
57.5°	938.6	945.0	974.8	994.0	998.2
60°	842.8	851.4	874.8	885.4	896.1
62.5°	742.8	749.2	776.9	787.5	791.8
65°	647.0	653.4	668.3	679.0	681.1
67.5°	549.1	555.5	568.3	576.8	615.1
70°	459.7	464.0	470.4	487.4	476.8
72.5°	374.6	376.7	383.1	383.1	385.2
75°	293.7	295.8	298.0	295.8	300.1
77.5°	219.2	223.5	225.6	223.5	221.4
80°	157.5	161.8	159.6	155.4	155.4
82.5°	102.2	104.3	102.2	100.0	100.0
85°	53.2	57.5	55.3	53.2	53.2
87.5°	19.2	21.3	23.4	25.5	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)