

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: P297450

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297450
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-74L93050-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6319.0 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

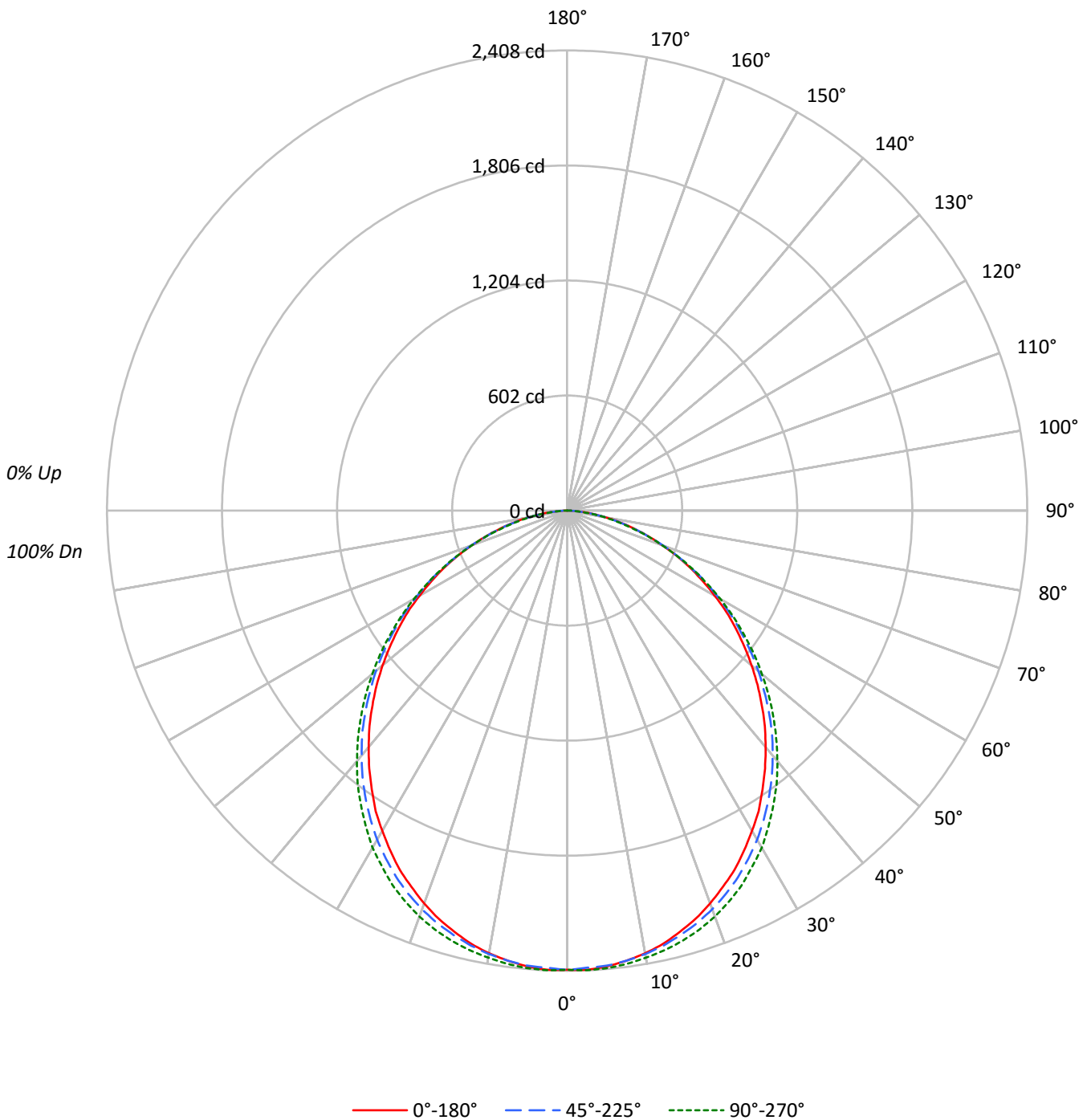
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	107	102	99	95	98	95	92		94	92	89		91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77		83	79	75		80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55		66	60	55		63	58	54	52
5	77	64	55	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	41	39
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47	41	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°	3233	3233	3233
5°	3234	3229	3246
10°	3214	3219	3246
15°	3179	3202	3247
20°	3133	3179	3237
25°	3078	3141	3211
30°	3006	3089	3165
35°	2927	3021	3091
40°	2838	2939	3006
45°	2742	2843	2904
50°	2638	2736	2785
55°	2527	2606	2647
60°	2400	2463	2492
65°	2264	2297	2311
70°	2077	2102	2077
75°	1870	1859	1804
80°	1583	1567	1517
85°	1183	1150	1019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.5	3.6
10°-20°	650.0	10.3
20°-30°	974.6	15.4
30°-40°	1147.7	18.2
40°-50°	1147.9	18.2
50°-60°	990.4	15.7
60°-70°	712.7	11.3
70°-80°	378.0	6.0
80°-90°	90.1	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°	1852.1	29.3
0°-40°	2999.8	47.5
0°-60°	5138.1	81.3
0°-90°	6319.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6319.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2403	2403	2403	2403	2403	
5°	2395	2393	2390	2399	2403	227
15°	2282	2288	2299	2322	2331	643
25°	2073	2086	2116	2152	2163	954
35°	1782	1803	1839	1871	1882	1115
45°	1441	1460	1494	1520	1526	1112
55°	1077	1088	1111	1130	1128	964
65°	711	713	722	726	726	703
75°	360	356	358	349	347	383
85°	77	77	74	68	66	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2403.2	2403.2	2403.2	2403.2	2403.2
2.5°	2405.4	2401.1	2394.7	2403.2	2407.5
5°	2394.7	2392.6	2390.5	2399.0	2403.2
7.5°	2375.6	2377.7	2375.6	2388.3	2392.6
10°	2352.1	2354.3	2356.4	2371.3	2375.6
12.5°	2322.3	2324.5	2330.9	2350.0	2356.4
15°	2281.9	2288.3	2298.9	2322.3	2330.9
17.5°	2239.3	2247.8	2262.7	2290.4	2298.9
20°	2188.2	2198.9	2220.2	2250.0	2260.6
22.5°	2130.8	2141.4	2171.2	2203.1	2213.8
25°	2073.3	2086.1	2115.9	2152.1	2162.7
27.5°	2005.2	2022.2	2054.1	2090.3	2098.8
30°	1934.9	1949.8	1988.1	2022.2	2037.1
32.5°	1864.7	1879.6	1915.8	1949.8	1960.5
35°	1781.7	1803.0	1839.1	1871.1	1881.7
37.5°	1700.8	1719.9	1758.3	1790.2	1800.8
40°	1615.6	1632.7	1673.1	1702.9	1711.4
42.5°	1530.5	1547.5	1588.0	1611.4	1619.9
45°	1441.1	1460.2	1494.3	1519.8	1526.2
47.5°	1351.7	1366.6	1398.5	1421.9	1430.4
50°	1260.2	1275.1	1307.0	1326.1	1330.4
52.5°	1168.6	1179.3	1209.1	1226.1	1232.5
55°	1077.1	1087.7	1111.1	1130.3	1128.2
57.5°	989.8	994.1	1017.5	1030.3	1030.3
60°	891.9	896.2	915.3	923.8	926.0
62.5°	800.4	806.8	821.7	823.8	823.8
65°	711.0	713.1	721.6	725.9	725.9
67.5°	621.6	619.4	627.9	627.9	625.8
70°	527.9	532.2	534.3	530.0	527.9
72.5°	442.8	440.6	440.6	438.5	438.5
75°	359.7	355.5	357.6	349.1	347.0
77.5°	283.1	276.7	274.6	270.3	266.1
80°	204.3	204.3	202.2	198.0	195.8
82.5°	136.2	136.2	134.1	129.8	125.6
85°	76.6	76.6	74.5	68.1	66.0
87.5°	25.5	25.5	25.5	25.5	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)