

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: P297457

Luminaire Tested: **D3X-WO-80L93050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297457
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-80L93050-LD5-UNV-24-T1-W2A-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7531.0 lumens
Efficiency: N/A
Efficacy: 119.2 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

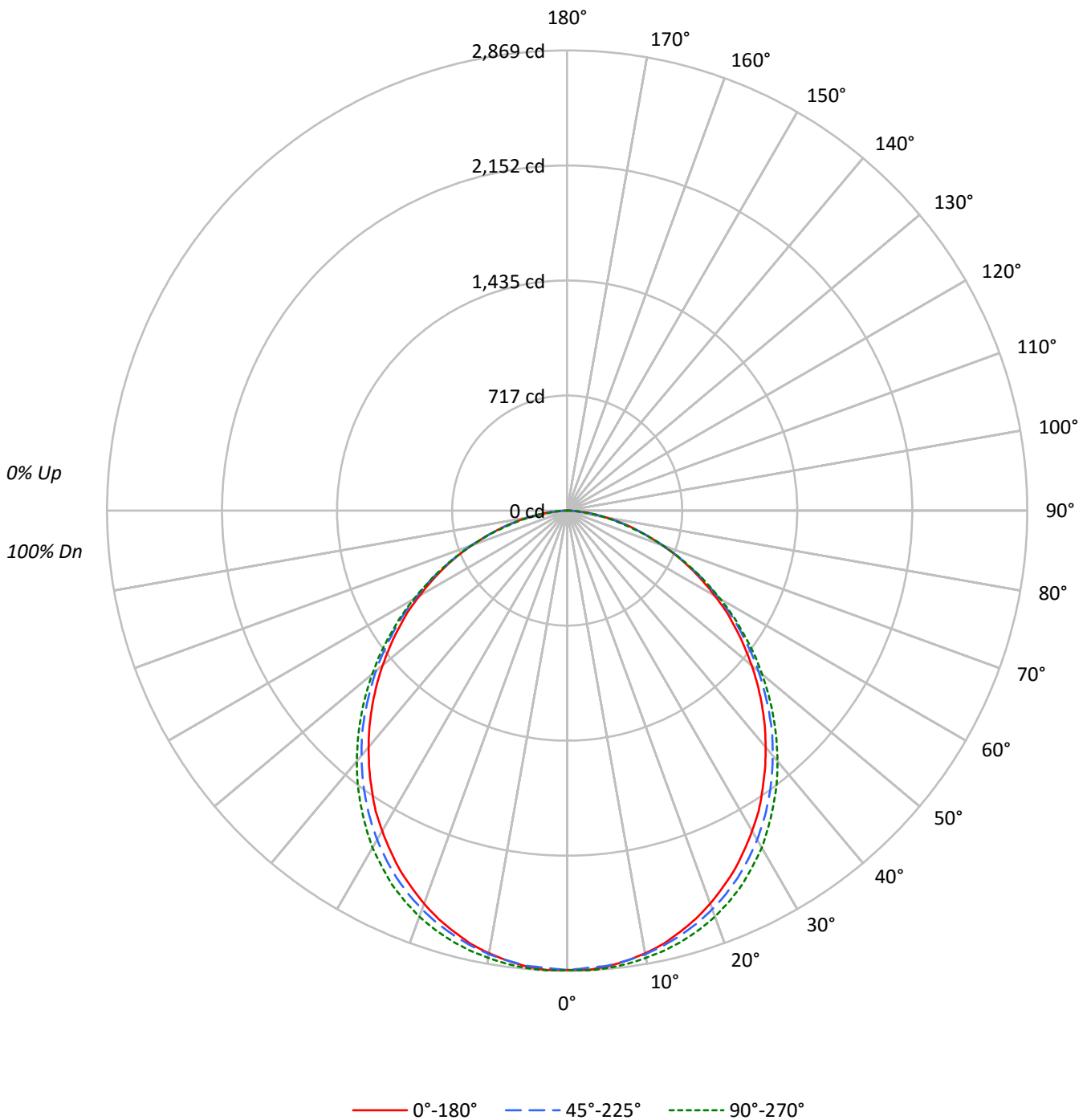
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	41	39					39			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3854	3854	3854
5°	3855	3848	3868
10°	3830	3837	3868
15°	3788	3817	3869
20°	3734	3789	3858
25°	3668	3744	3827
30°	3583	3681	3772
35°	3488	3600	3684
40°	3382	3502	3583
45°	3268	3389	3461
50°	3144	3261	3319
55°	3011	3107	3154
60°	2861	2936	2970
65°	2698	2738	2754
70°	2475	2505	2475
75°	2229	2216	2150
80°	1887	1867	1808
85°	1409	1371	1213



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.2	3.6
10°-20°	774.7	10.3
20°-30°	1161.5	15.4
30°-40°	1367.8	18.2
40°-50°	1368.1	18.2
50°-60°	1180.4	15.7
60°-70°	849.4	11.3
70°-80°	450.5	6.0
80°-90°	107.4	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°	2207.3	29.3
0°-40°	3575.2	47.5
0°-60°	6123.6	81.3
0°-90°	7531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7531.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2864	2864	2864	2864	2864	
5°	2854	2852	2849	2859	2864	271
15°	2720	2727	2740	2768	2778	767
25°	2471	2486	2522	2565	2578	1137
35°	2123	2149	2192	2230	2243	1328
45°	1718	1740	1781	1811	1819	1325
55°	1284	1296	1324	1347	1345	1149
65°	847	850	860	865	865	838
75°	429	424	426	416	414	456
85°	91	91	89	81	79	110
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2864.2	2864.2	2864.2	2864.2	2864.2
2.5°	2866.7	2861.6	2854.0	2864.2	2869.3
5°	2854.0	2851.5	2849.0	2859.1	2864.2
7.5°	2831.2	2833.7	2831.2	2846.4	2851.5
10°	2803.3	2805.8	2808.4	2826.1	2831.2
12.5°	2767.8	2770.3	2777.9	2800.8	2808.4
15°	2719.6	2727.2	2739.9	2767.8	2777.9
17.5°	2668.8	2679.0	2696.7	2729.7	2739.9
20°	2607.9	2620.6	2646.0	2681.5	2694.2
22.5°	2539.5	2552.1	2587.7	2625.7	2638.4
25°	2471.0	2486.2	2521.7	2564.8	2577.5
27.5°	2389.8	2410.1	2448.1	2491.3	2501.4
30°	2306.1	2323.8	2369.5	2410.1	2427.8
32.5°	2222.3	2240.1	2283.2	2323.8	2336.5
35°	2123.4	2148.8	2191.9	2229.9	2242.6
37.5°	2027.0	2049.8	2095.5	2133.5	2146.2
40°	1925.5	1945.8	1994.0	2029.5	2039.7
42.5°	1824.0	1844.3	1892.5	1920.4	1930.6
45°	1717.5	1740.3	1780.9	1811.4	1819.0
47.5°	1610.9	1628.7	1666.8	1694.7	1704.8
50°	1501.9	1519.6	1557.7	1580.5	1585.6
52.5°	1392.8	1405.5	1441.0	1461.3	1468.9
55°	1283.7	1296.4	1324.3	1347.1	1344.6
57.5°	1179.7	1184.7	1212.6	1227.9	1227.9
60°	1063.0	1068.0	1090.9	1101.0	1103.6
62.5°	953.9	961.5	979.2	981.8	981.8
65°	847.3	849.9	860.0	865.1	865.1
67.5°	740.8	738.2	748.4	748.4	745.9
70°	629.2	634.2	636.8	631.7	629.2
72.5°	527.7	525.1	525.1	522.6	522.6
75°	428.7	423.7	426.2	416.1	413.5
77.5°	337.4	329.8	327.3	322.2	317.1
80°	243.5	243.5	241.0	235.9	233.4
82.5°	162.4	162.4	159.8	154.8	149.7
85°	91.3	91.3	88.8	81.2	78.6
87.5°	30.4	30.4	30.4	30.4	30.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)