

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: P297400

Luminaire Tested: **D3X-WO-80L82765-LD5-UNV-24-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297400
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-80L82765-LD5-UNV-24-T1-W2A-2700K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7399.0 lumens
Efficiency: N/A
Efficacy: 121.9 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

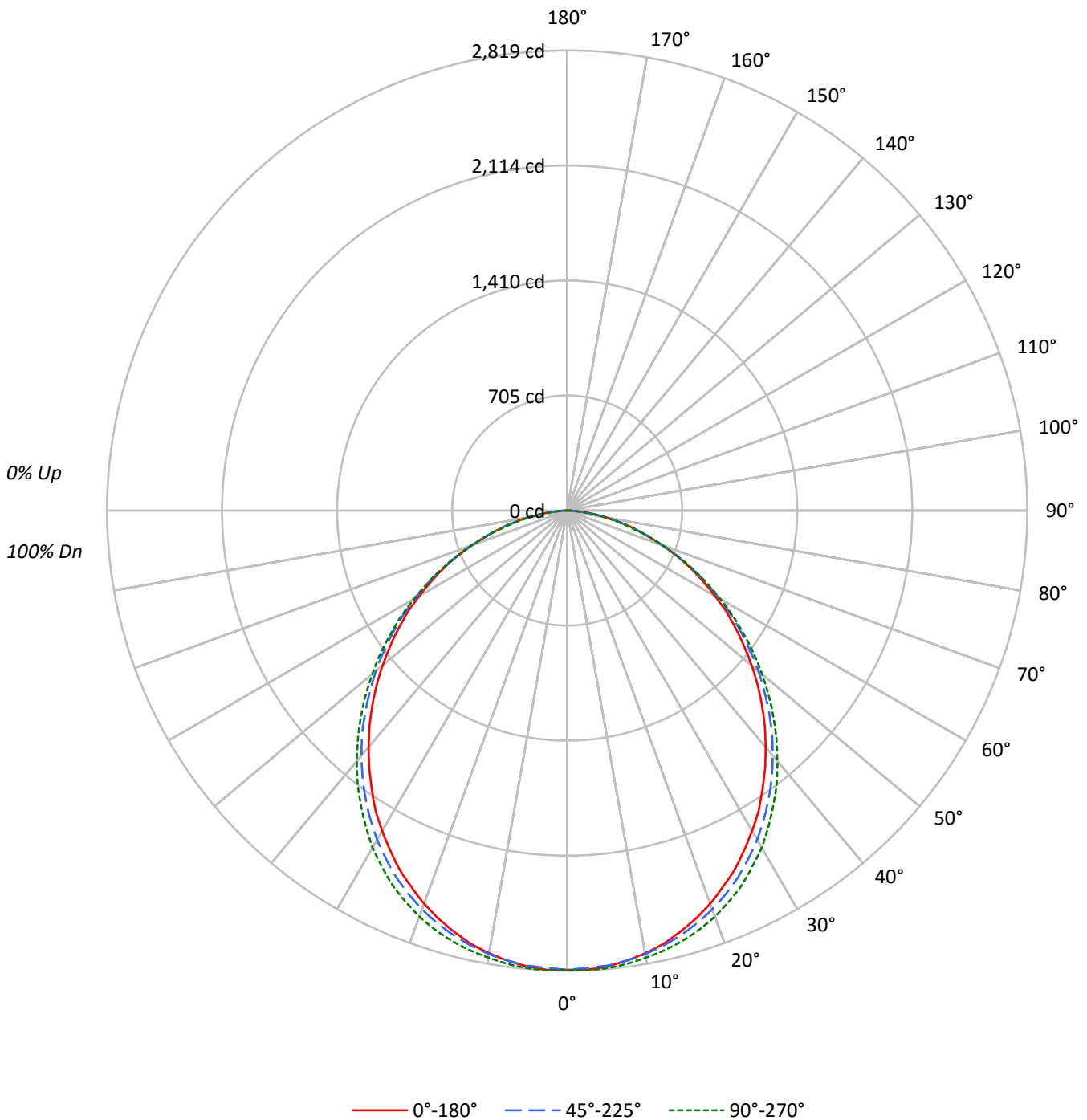
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3786	3786	3786
5°	3787	3780	3801
10°	3763	3770	3800
15°	3722	3750	3802
20°	3669	3722	3790
25°	3604	3678	3759
30°	3520	3617	3706
35°	3427	3537	3619
40°	3323	3441	3520
45°	3211	3329	3401
50°	3089	3203	3261
55°	2959	3052	3099
60°	2810	2884	2918
65°	2650	2690	2706
70°	2432	2461	2432
75°	2190	2177	2112
80°	1854	1835	1777
85°	1385	1346	1193



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.4	3.6
10°-20°	761.1	10.3
20°-30°	1141.1	15.4
30°-40°	1343.9	18.2
40°-50°	1344.1	18.2
50°-60°	1159.7	15.7
60°-70°	834.5	11.3
70°-80°	442.6	6.0
80°-90°	105.6	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°	2168.6	29.3
0°-40°	3512.5	47.5
0°-60°	6016.3	81.3
0°-90°	7399.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7399.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2814	2814	2814	2814	2814	
5°	2804	2802	2799	2809	2814	266
15°	2672	2679	2692	2719	2729	753
25°	2428	2443	2478	2520	2532	1117
35°	2086	2111	2154	2191	2203	1305
45°	1687	1710	1750	1780	1787	1302
55°	1261	1274	1301	1324	1321	1129
65°	832	835	845	850	850	823
75°	421	416	419	409	406	448
85°	90	90	87	80	77	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2814.0	2814.0	2814.0	2814.0	2814.0
2.5°	2816.5	2811.5	2804.0	2814.0	2819.0
5°	2804.0	2801.5	2799.0	2809.0	2814.0
7.5°	2781.6	2784.1	2781.6	2796.5	2801.5
10°	2754.2	2756.7	2759.1	2776.6	2781.6
12.5°	2719.3	2721.8	2729.2	2751.7	2759.1
15°	2671.9	2679.4	2691.8	2719.3	2729.2
17.5°	2622.1	2632.0	2649.5	2681.9	2691.8
20°	2562.2	2574.7	2599.6	2634.5	2647.0
22.5°	2494.9	2507.4	2542.3	2579.7	2592.1
25°	2427.6	2442.6	2477.5	2519.9	2532.3
27.5°	2347.9	2367.8	2405.2	2447.6	2457.6
30°	2265.6	2283.1	2327.9	2367.8	2385.3
32.5°	2183.4	2200.8	2243.2	2283.1	2295.5
35°	2086.2	2111.1	2153.5	2190.9	2203.3
37.5°	1991.5	2013.9	2058.8	2096.2	2108.6
40°	1891.8	1911.7	1959.1	1994.0	2003.9
42.5°	1792.1	1812.0	1859.4	1886.8	1896.8
45°	1687.4	1709.8	1749.7	1779.6	1787.1
47.5°	1582.7	1600.2	1637.5	1665.0	1674.9
50°	1475.5	1493.0	1530.4	1552.8	1557.8
52.5°	1368.4	1380.8	1415.7	1435.7	1443.1
55°	1261.2	1273.6	1301.1	1323.5	1321.0
57.5°	1159.0	1164.0	1191.4	1206.3	1206.3
60°	1044.3	1049.3	1071.8	1081.7	1084.2
62.5°	937.2	944.6	962.1	964.6	964.6
65°	832.5	835.0	844.9	849.9	849.9
67.5°	727.8	725.3	735.3	735.3	732.8
70°	618.1	623.1	625.6	620.6	618.1
72.5°	518.4	515.9	515.9	513.4	513.4
75°	421.2	416.2	418.7	408.8	406.3
77.5°	331.5	324.0	321.5	316.5	311.6
80°	239.3	239.3	236.8	231.8	229.3
82.5°	159.5	159.5	157.0	152.0	147.1
85°	89.7	89.7	87.2	79.8	77.3
87.5°	29.9	29.9	29.9	29.9	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)