

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: P297456

Luminaire Tested: **D3X-WO-80L93050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297456
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-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7402.0 lumens
Efficiency: N/A
Efficacy: 118.8 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

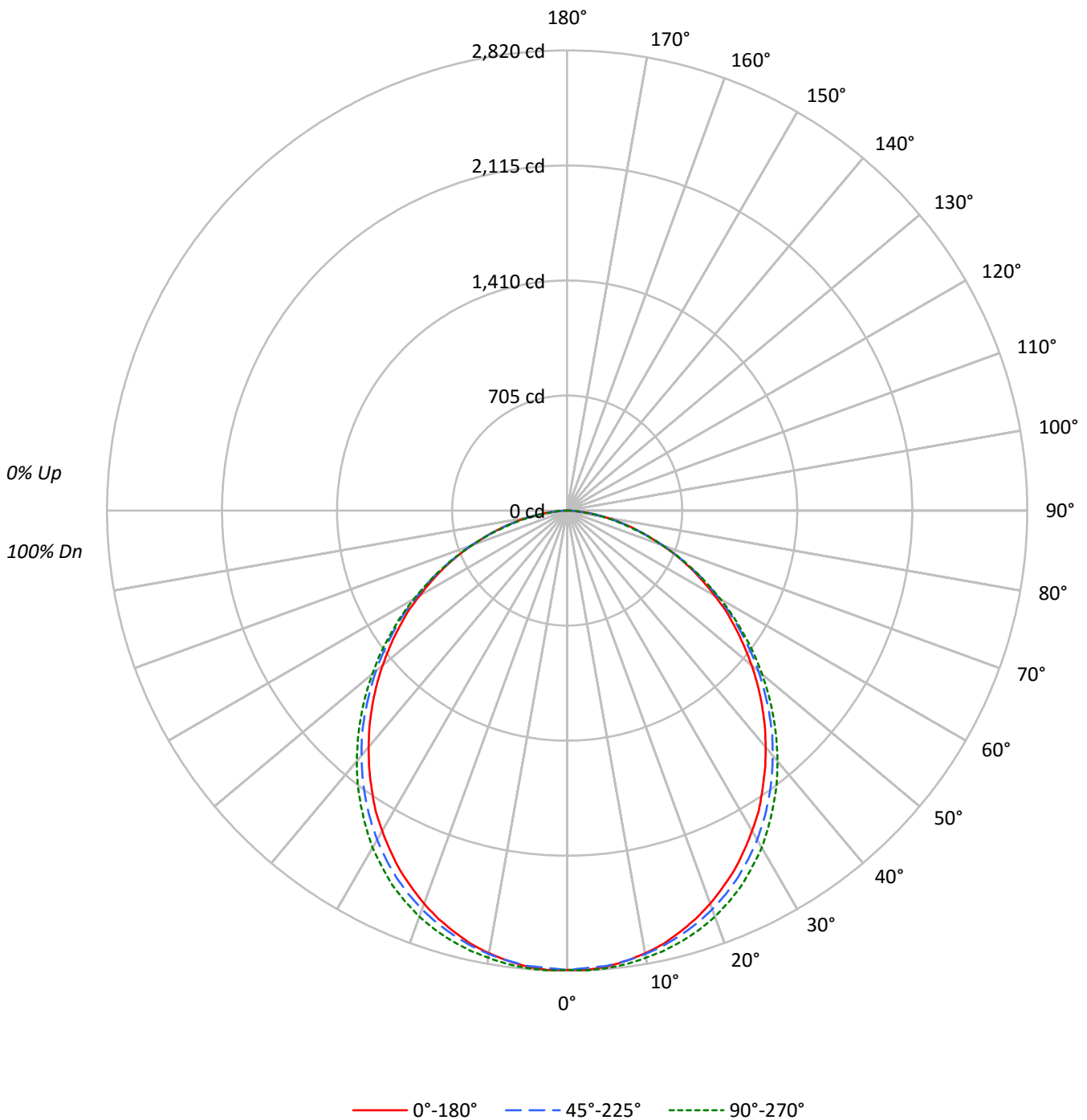
Input Watts (W): 62.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3788	3788	3788
5°	3789	3782	3802
10°	3764	3771	3802
15°	3723	3751	3803
20°	3670	3724	3792
25°	3605	3680	3761
30°	3521	3618	3707
35°	3428	3539	3620
40°	3324	3442	3521
45°	3212	3331	3402
50°	3090	3205	3262
55°	2960	3053	3100
60°	2812	2885	2919
65°	2651	2691	2707
70°	2433	2462	2433
75°	2191	2178	2113
80°	1855	1836	1777
85°	1386	1348	1193



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.5	3.6
10°-20°	761.4	10.3
20°-30°	1141.6	15.4
30°-40°	1344.4	18.2
40°-50°	1344.6	18.2
50°-60°	1160.2	15.7
60°-70°	834.8	11.3
70°-80°	442.8	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°	2169.5	29.3
0°-40°	3513.9	47.5
0°-60°	6018.7	81.3
0°-90°	7402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7402.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2815	2815	2815	2815	2815	
5°	2805	2803	2800	2810	2815	266
15°	2673	2680	2693	2720	2730	754
25°	2429	2444	2478	2521	2533	1117
35°	2087	2112	2154	2192	2204	1306
45°	1688	1710	1750	1780	1788	1302
55°	1262	1274	1302	1324	1322	1129
65°	833	835	845	850	850	824
75°	421	416	419	409	406	448
85°	90	90	87	80	77	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2815.1	2815.1	2815.1	2815.1	2815.1
2.5°	2817.6	2812.6	2805.1	2815.1	2820.1
5°	2805.1	2802.7	2800.2	2810.1	2815.1
7.5°	2782.7	2785.2	2782.7	2797.7	2802.7
10°	2755.3	2757.8	2760.3	2777.7	2782.7
12.5°	2720.4	2722.9	2730.3	2752.8	2760.3
15°	2673.0	2680.5	2692.9	2720.4	2730.3
17.5°	2623.1	2633.1	2650.5	2683.0	2692.9
20°	2563.3	2575.7	2600.7	2635.6	2648.1
22.5°	2496.0	2508.4	2543.3	2580.7	2593.2
25°	2428.6	2443.6	2478.5	2520.9	2533.4
27.5°	2348.8	2368.8	2406.2	2448.6	2458.6
30°	2266.6	2284.0	2328.9	2368.8	2386.2
32.5°	2184.3	2201.7	2244.1	2284.0	2296.5
35°	2087.0	2112.0	2154.4	2191.8	2204.2
37.5°	1992.3	2014.7	2059.6	2097.0	2109.5
40°	1892.5	1912.5	1959.9	1994.8	2004.7
42.5°	1792.8	1812.7	1860.1	1887.5	1897.5
45°	1688.1	1710.5	1750.4	1780.3	1787.8
47.5°	1583.3	1600.8	1638.2	1665.6	1675.6
50°	1476.1	1493.6	1531.0	1553.4	1558.4
52.5°	1368.9	1381.4	1416.3	1436.2	1443.7
55°	1261.7	1274.2	1301.6	1324.0	1321.5
57.5°	1159.5	1164.4	1191.9	1206.8	1206.8
60°	1044.8	1049.7	1072.2	1082.2	1084.7
62.5°	937.5	945.0	962.5	965.0	965.0
65°	832.8	835.3	845.3	850.3	850.3
67.5°	728.1	725.6	735.6	735.6	733.1
70°	618.4	623.4	625.9	620.9	618.4
72.5°	518.6	516.1	516.1	513.7	513.7
75°	421.4	416.4	418.9	408.9	406.4
77.5°	331.6	324.1	321.7	316.7	311.7
80°	239.4	239.4	236.9	231.9	229.4
82.5°	159.6	159.6	157.1	152.1	147.1
85°	89.8	89.8	87.3	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)