

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: P297120

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297120
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-80L82765-LD5-UNV-24-T1-W2A-2700K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6958.0 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

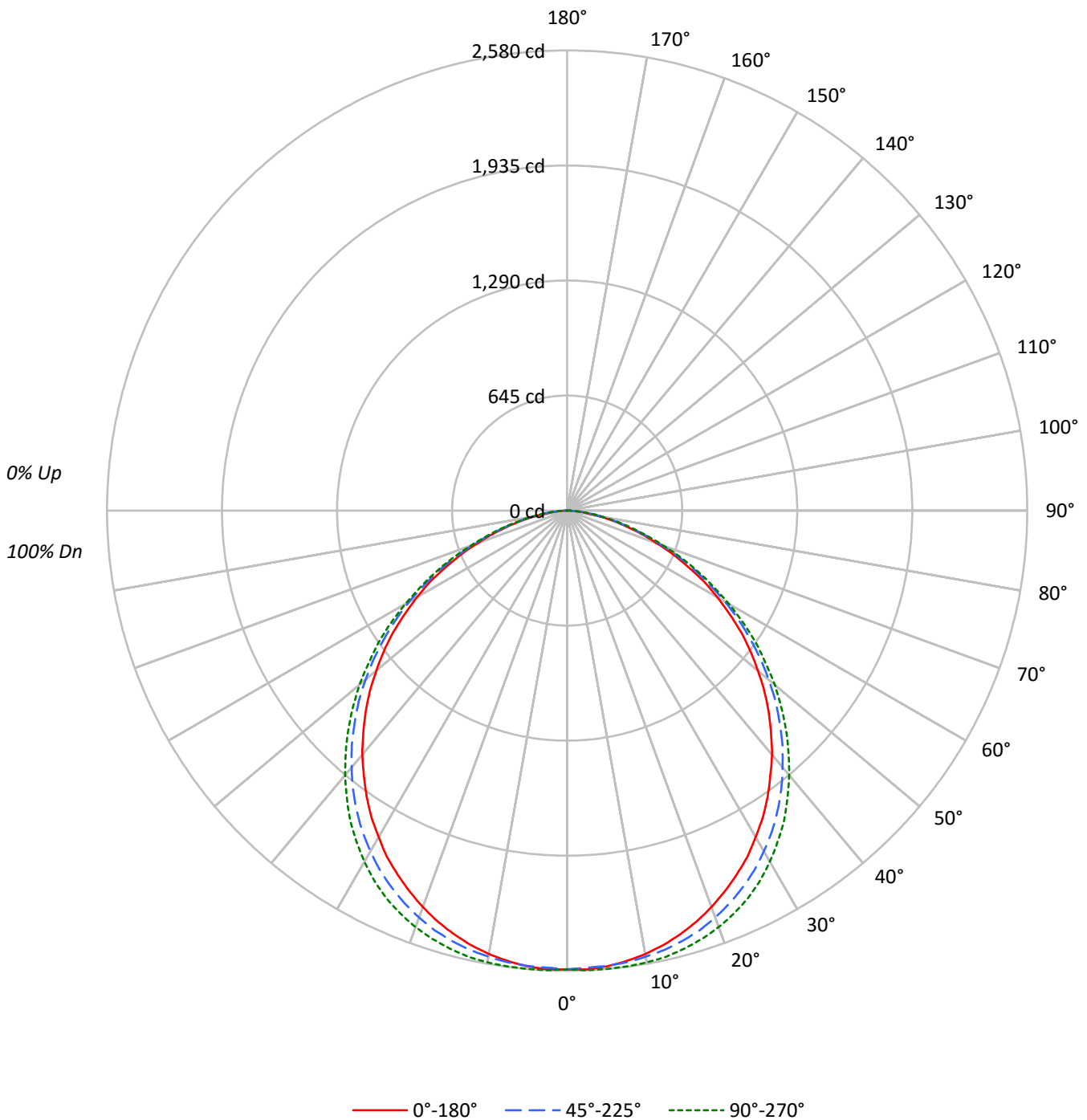
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
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	47	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	27	38	32	27	37	31	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3461	3461	3461
5°	3464	3461	3484
10°	3450	3470	3514
15°	3423	3479	3541
20°	3387	3476	3558
25°	3341	3460	3560
30°	3284	3427	3532
35°	3218	3378	3484
40°	3139	3301	3401
45°	3040	3206	3301
50°	2922	3089	3183
55°	2795	2935	3029
60°	2616	2750	2817
65°	2388	2515	2579
70°	2098	2206	2265
75°	1775	1866	1931
80°	1410	1545	1584
85°	962	1155	1116



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.4	3.5
10°-20°	705.6	10.1
20°-30°	1072.3	15.4
30°-40°	1279.5	18.4
40°-50°	1292.3	18.6
50°-60°	1113.4	16.0
60°-70°	776.2	11.2
70°-80°	384.7	5.5
80°-90°	89.7	1.3
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°	2022.3	29.1
0°-40°	3301.8	47.5
0°-60°	5707.5	82.0
0°-90°	6958.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6958.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2572	2572	2572	2572	2572	
5°	2565	2562	2562	2575	2580	244
15°	2458	2470	2498	2530	2542	693
25°	2251	2281	2330	2378	2398	1037
35°	1959	1992	2056	2104	2121	1224
45°	1598	1633	1685	1725	1735	1232
55°	1191	1216	1251	1281	1291	1062
65°	750	765	790	798	810	745
75°	342	346	359	366	371	368
85°	62	75	75	70	72	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2572.2	2572.2	2572.2	2572.2	2572.2
2.5°	2574.7	2569.7	2564.7	2574.7	2579.7
5°	2564.7	2562.3	2562.3	2574.7	2579.7
7.5°	2547.3	2547.3	2554.8	2572.2	2577.2
10°	2524.9	2529.9	2539.8	2564.7	2572.2
12.5°	2495.0	2504.9	2522.4	2552.3	2562.3
15°	2457.6	2470.0	2497.5	2529.9	2542.3
17.5°	2415.2	2432.6	2467.5	2504.9	2517.4
20°	2365.4	2387.8	2427.7	2470.0	2485.0
22.5°	2310.5	2337.9	2382.8	2427.7	2445.1
25°	2250.7	2280.6	2330.5	2377.8	2397.8
27.5°	2188.4	2218.3	2273.1	2320.5	2340.4
30°	2113.6	2148.5	2205.8	2255.7	2273.1
32.5°	2041.3	2076.2	2136.0	2180.9	2198.4
35°	1959.1	1991.5	2056.3	2103.6	2121.1
37.5°	1871.8	1909.2	1971.5	2013.9	2028.9
40°	1787.1	1819.5	1879.3	1921.7	1936.6
42.5°	1692.4	1727.3	1787.1	1824.5	1836.9
45°	1597.7	1632.6	1684.9	1724.8	1734.8
47.5°	1500.5	1532.9	1585.2	1617.6	1627.6
50°	1395.8	1425.7	1475.5	1507.9	1520.4
52.5°	1296.1	1323.5	1365.9	1393.3	1400.8
55°	1191.4	1216.3	1251.2	1281.1	1291.1
57.5°	1079.2	1106.7	1139.1	1164.0	1171.5
60°	972.1	994.5	1021.9	1044.3	1046.8
62.5°	867.4	877.3	902.3	922.2	924.7
65°	750.2	765.2	790.1	797.6	810.1
67.5°	643.1	653.0	673.0	682.9	692.9
70°	533.4	540.9	560.8	573.3	575.8
72.5°	438.7	441.2	456.1	466.1	468.6
75°	341.5	346.5	358.9	366.4	371.4
77.5°	259.2	264.2	274.2	279.2	279.2
80°	182.0	189.4	199.4	201.9	204.4
82.5°	117.1	127.1	134.6	137.1	132.1
85°	62.3	74.8	74.8	69.8	72.3
87.5°	22.4	27.4	29.9	32.4	32.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)