

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: P297262

Luminaire Tested: **D3X-WG-80L92765-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297262
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-80L92765-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6487.0 lumens
Efficiency: N/A
Efficacy: 106.5 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

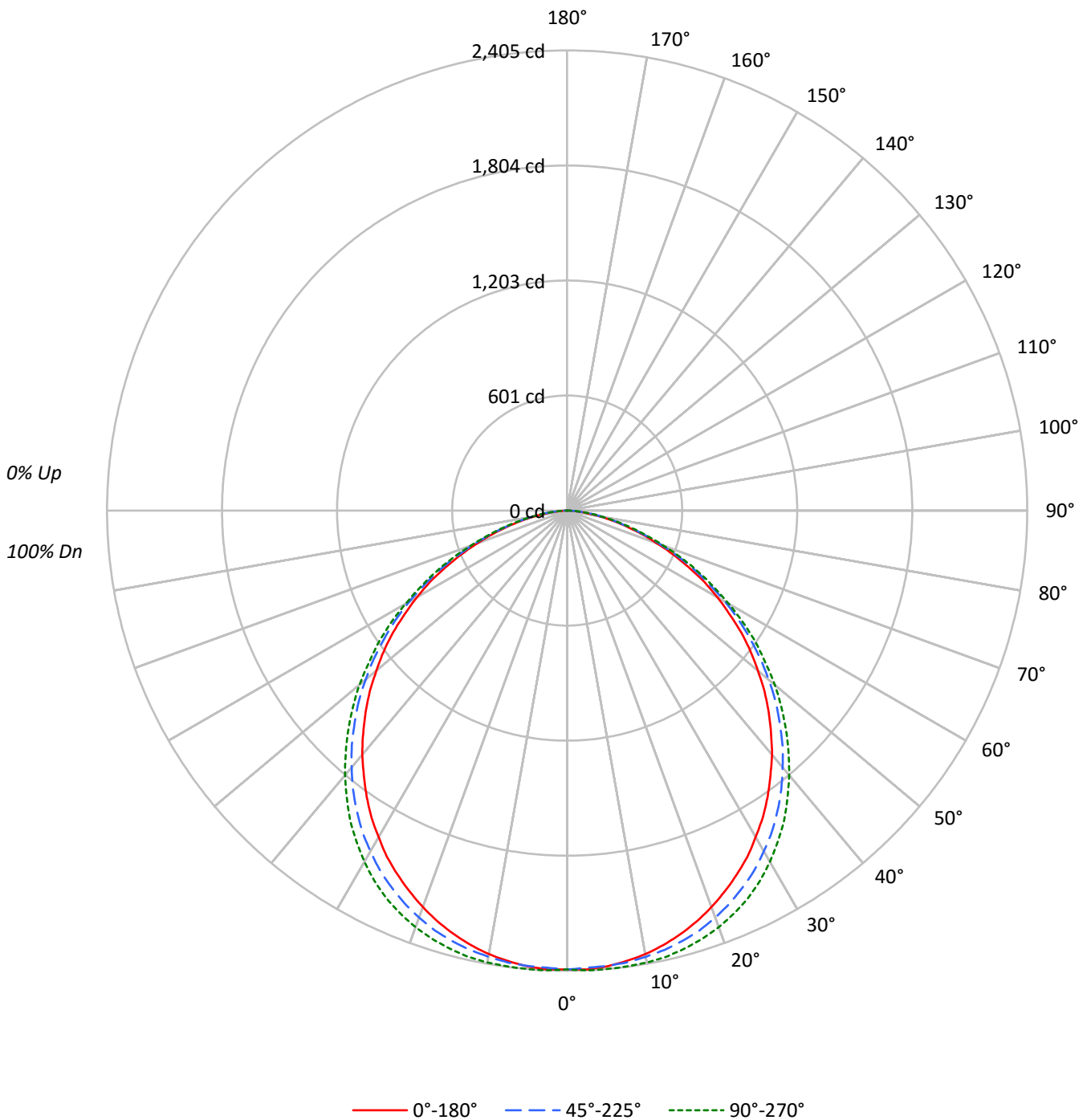
Input Watts (W): 60.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3227	3227	3227
5°	3229	3226	3248
10°	3216	3235	3276
15°	3192	3243	3302
20°	3157	3241	3317
25°	3115	3226	3319
30°	3061	3195	3293
35°	3000	3149	3248
40°	2926	3077	3171
45°	2834	2989	3077
50°	2724	2880	2967
55°	2606	2736	2824
60°	2439	2564	2626
65°	2227	2345	2404
70°	1956	2057	2112
75°	1655	1739	1800
80°	1314	1440	1476
85°	897	1076	1041



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.9	3.5
10°-20°	657.8	10.1
20°-30°	999.7	15.4
30°-40°	1192.9	18.4
40°-50°	1204.8	18.6
50°-60°	1038.0	16.0
60°-70°	723.6	11.2
70°-80°	358.6	5.5
80°-90°	83.6	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°	1885.4	29.1
0°-40°	3078.3	47.5
0°-60°	5321.2	82.0
0°-90°	6487.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6487.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2398	2398	2398	2398	2398	
5°	2391	2389	2389	2400	2405	227
15°	2291	2303	2328	2359	2370	646
25°	2098	2126	2173	2217	2235	967
35°	1826	1857	1917	1961	1978	1142
45°	1490	1522	1571	1608	1617	1148
55°	1111	1134	1166	1194	1204	990
65°	699	713	737	744	755	695
75°	318	323	335	342	346	343
85°	58	70	70	65	67	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2398.1	2398.1	2398.1	2398.1	2398.1
2.5°	2400.4	2395.8	2391.1	2400.4	2405.1
5°	2391.1	2388.8	2388.8	2400.4	2405.1
7.5°	2374.9	2374.9	2381.8	2398.1	2402.8
10°	2354.0	2358.6	2367.9	2391.1	2398.1
12.5°	2326.1	2335.4	2351.6	2379.5	2388.8
15°	2291.2	2302.8	2328.4	2358.6	2370.2
17.5°	2251.7	2268.0	2300.5	2335.4	2347.0
20°	2205.2	2226.1	2263.3	2302.8	2316.8
22.5°	2154.1	2179.7	2221.5	2263.3	2279.6
25°	2098.3	2126.2	2172.7	2216.9	2235.4
27.5°	2040.2	2068.1	2119.3	2163.4	2182.0
30°	1970.5	2003.1	2056.5	2103.0	2119.3
32.5°	1903.1	1935.7	1991.5	2033.3	2049.5
35°	1826.5	1856.7	1917.1	1961.2	1977.5
37.5°	1745.1	1780.0	1838.1	1877.6	1891.5
40°	1666.1	1696.3	1752.1	1791.6	1805.6
42.5°	1577.8	1610.4	1666.1	1701.0	1712.6
45°	1489.5	1522.1	1570.9	1608.0	1617.3
47.5°	1398.9	1429.1	1477.9	1508.1	1517.4
50°	1301.3	1329.2	1375.7	1405.9	1417.5
52.5°	1208.3	1233.9	1273.4	1299.0	1305.9
55°	1110.8	1134.0	1166.5	1194.4	1203.7
57.5°	1006.2	1031.7	1062.0	1085.2	1092.2
60°	906.3	927.2	952.7	973.6	976.0
62.5°	808.7	818.0	841.2	859.8	862.1
65°	699.4	713.4	736.6	743.6	755.2
67.5°	599.5	608.8	627.4	636.7	646.0
70°	497.3	504.3	522.8	534.5	536.8
72.5°	409.0	411.3	425.2	434.5	436.9
75°	318.4	323.0	334.6	341.6	346.2
77.5°	241.7	246.3	255.6	260.3	260.3
80°	169.6	176.6	185.9	188.2	190.5
82.5°	109.2	118.5	125.5	127.8	123.2
85°	58.1	69.7	69.7	65.1	67.4
87.5°	20.9	25.6	27.9	30.2	30.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)