

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: P297104

Luminaire Tested: **D3X-WG-67L82765-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297104
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-67L82765-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6151.0 lumens
Efficiency: N/A
Efficacy: 126.0 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

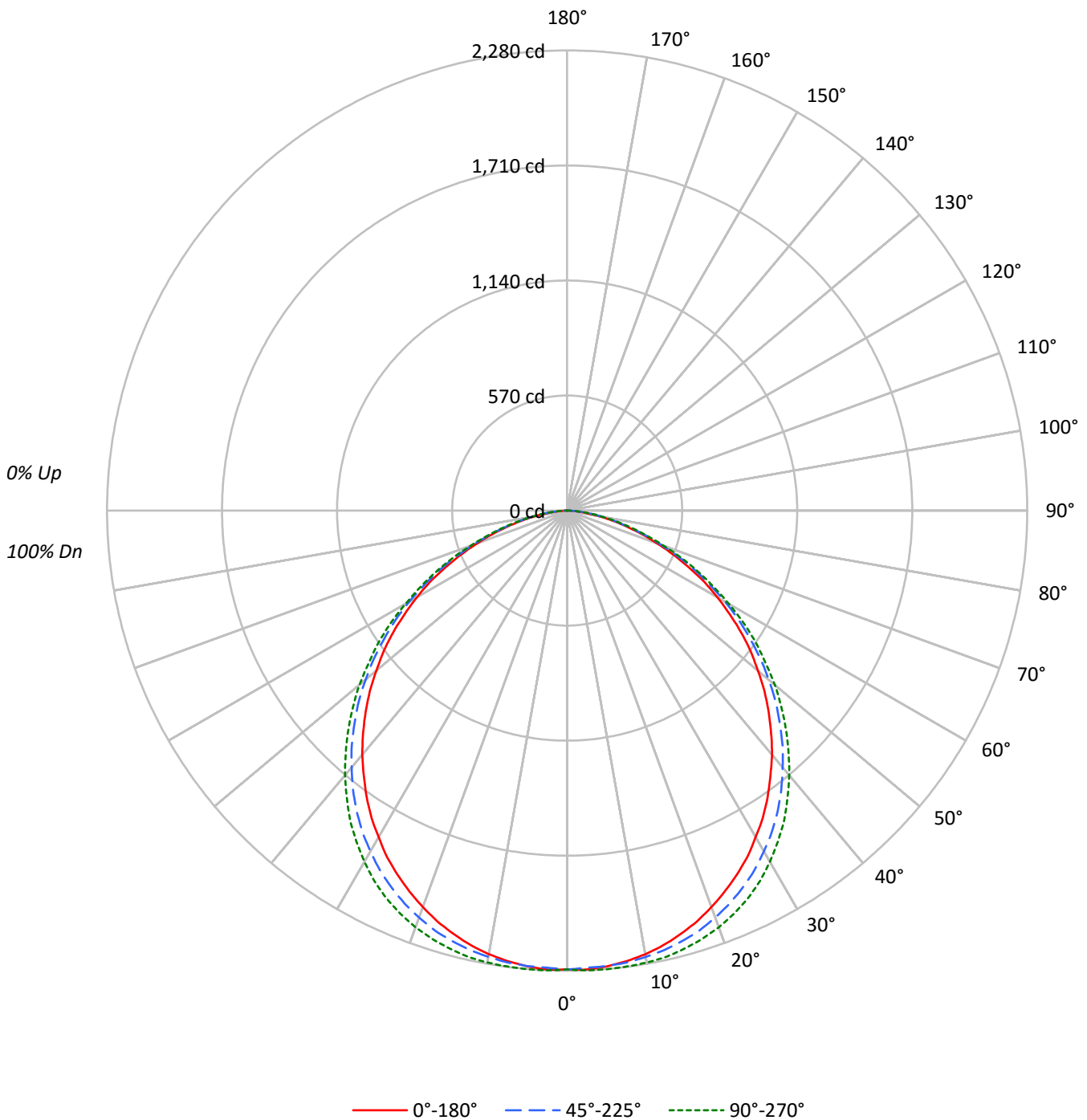
Input Watts (W): 48.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3060	3060	3060
5°	3062	3059	3080
10°	3049	3068	3107
15°	3026	3075	3131
20°	2994	3073	3145
25°	2954	3059	3147
30°	2903	3030	3122
35°	2845	2986	3080
40°	2775	2918	3007
45°	2688	2834	2918
50°	2583	2730	2813
55°	2471	2595	2677
60°	2312	2431	2490
65°	2111	2224	2280
70°	1855	1950	2002
75°	1569	1650	1707
80°	1246	1366	1400
85°	851	1020	986



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.1	3.5
10°-20°	623.8	10.1
20°-30°	947.9	15.4
30°-40°	1131.1	18.4
40°-50°	1142.4	18.6
50°-60°	984.3	16.0
60°-70°	686.1	11.2
70°-80°	340.0	5.5
80°-90°	79.3	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°	1787.8	29.1
0°-40°	2918.9	47.5
0°-60°	5045.6	82.0
0°-90°	6151.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6151.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2274	2274	2274	2274	2274	
5°	2267	2265	2265	2276	2280	215
15°	2172	2184	2208	2236	2248	613
25°	1990	2016	2060	2102	2120	917
35°	1732	1760	1818	1860	1875	1082
45°	1412	1443	1490	1525	1534	1089
55°	1053	1075	1106	1132	1141	939
65°	663	676	698	705	716	659
75°	302	306	317	324	328	325
85°	55	66	66	62	64	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2273.9	2273.9	2273.9	2273.9	2273.9
2.5°	2276.1	2271.7	2267.3	2276.1	2280.5
5°	2267.3	2265.1	2265.1	2276.1	2280.5
7.5°	2251.9	2251.9	2258.5	2273.9	2278.3
10°	2232.0	2236.4	2245.3	2267.3	2273.9
12.5°	2205.6	2214.4	2229.8	2256.3	2265.1
15°	2172.5	2183.6	2207.8	2236.4	2247.5
17.5°	2135.1	2150.5	2181.4	2214.4	2225.4
20°	2091.0	2110.8	2146.1	2183.6	2196.8
22.5°	2042.5	2066.8	2106.4	2146.1	2161.5
25°	1989.7	2016.1	2060.2	2102.0	2119.7
27.5°	1934.6	1961.0	2009.5	2051.4	2069.0
30°	1868.5	1899.3	1950.0	1994.1	2009.5
32.5°	1804.6	1835.4	1888.3	1928.0	1943.4
35°	1731.9	1760.5	1817.8	1859.7	1875.1
37.5°	1654.7	1687.8	1742.9	1780.3	1793.6
40°	1579.8	1608.5	1661.4	1698.8	1712.0
42.5°	1496.1	1526.9	1579.8	1612.9	1623.9
45°	1412.4	1443.2	1489.5	1524.7	1533.6
47.5°	1326.4	1355.1	1401.4	1430.0	1438.8
50°	1233.9	1260.3	1304.4	1333.0	1344.1
52.5°	1145.8	1170.0	1207.5	1231.7	1238.3
55°	1053.2	1075.3	1106.1	1132.5	1141.4
57.5°	954.1	978.3	1006.9	1029.0	1035.6
60°	859.3	879.2	903.4	923.2	925.4
62.5°	766.8	775.6	797.6	815.3	817.5
65°	663.2	676.4	698.5	705.1	716.1
67.5°	568.5	577.3	594.9	603.7	612.5
70°	471.5	478.1	495.8	506.8	509.0
72.5°	387.8	390.0	403.2	412.0	414.2
75°	301.9	306.3	317.3	323.9	328.3
77.5°	229.2	233.6	242.4	246.8	246.8
80°	160.8	167.5	176.3	178.5	180.7
82.5°	103.6	112.4	119.0	121.2	116.8
85°	55.1	66.1	66.1	61.7	63.9
87.5°	19.8	24.2	26.4	28.6	28.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)