

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: P297111

Luminaire Tested: **D3X-WG-74L82765-LD5-UNV-24-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297111
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-74L82765-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: 6415.0 lumens
Efficiency: N/A
Efficacy: 116.4 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

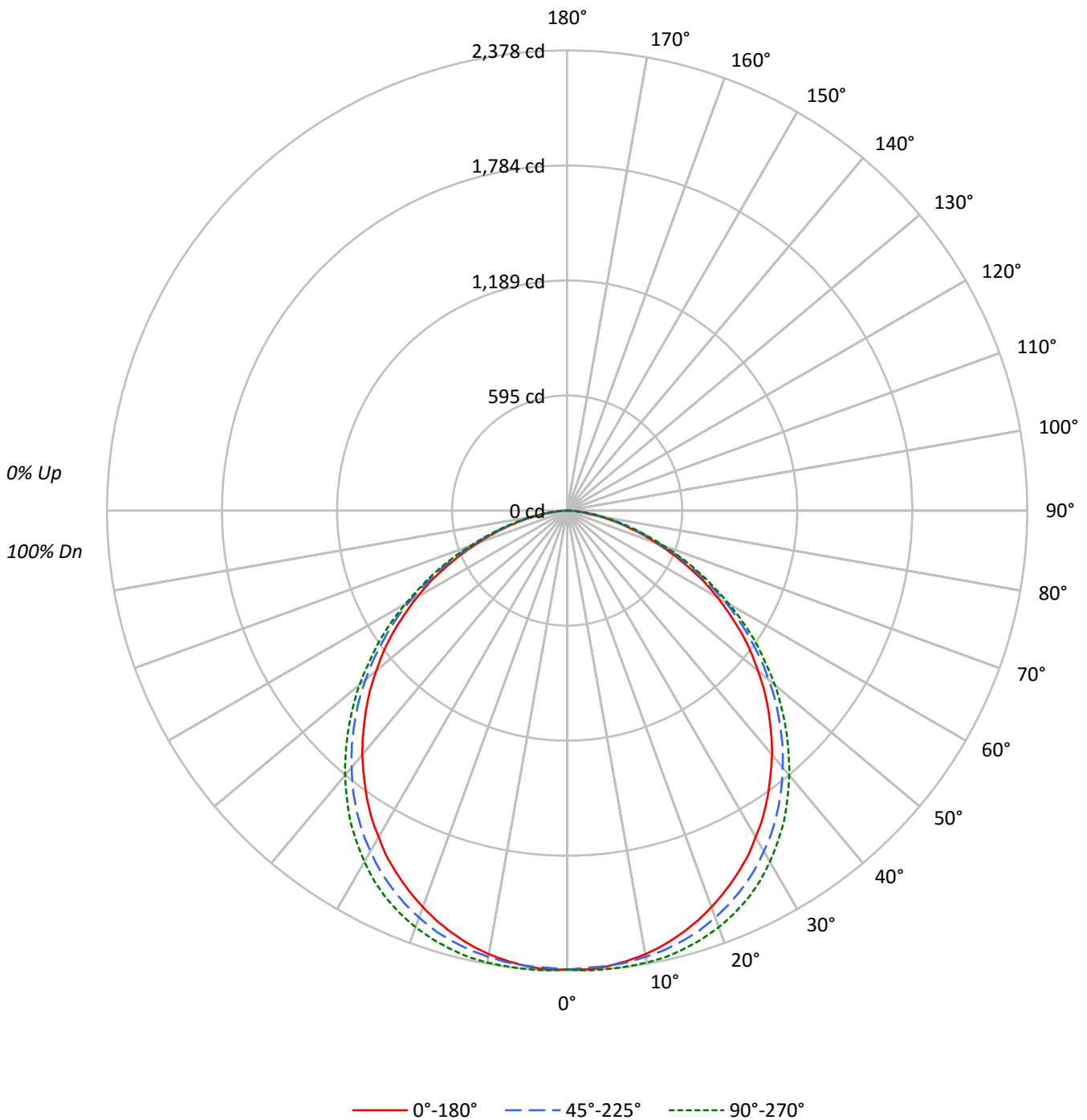
Input Watts (W): 55.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3191	3191	3191
5°	3194	3191	3212
10°	3180	3199	3240
15°	3156	3207	3265
20°	3123	3205	3280
25°	3081	3190	3282
30°	3028	3160	3256
35°	2967	3114	3212
40°	2894	3043	3136
45°	2803	2956	3043
50°	2694	2848	2934
55°	2577	2706	2792
60°	2412	2535	2597
65°	2202	2319	2378
70°	1935	2034	2088
75°	1637	1720	1780
80°	1300	1424	1460
85°	886	1064	1028



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.3	3.5
10°-20°	650.5	10.1
20°-30°	988.6	15.4
30°-40°	1179.7	18.4
40°-50°	1191.4	18.6
50°-60°	1026.5	16.0
60°-70°	715.6	11.2
70°-80°	354.6	5.5
80°-90°	82.7	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°	1864.5	29.1
0°-40°	3044.2	47.5
0°-60°	5262.1	82.0
0°-90°	6415.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6415.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2372	2372	2372	2372	2372	
5°	2365	2362	2362	2374	2378	225
15°	2266	2277	2303	2332	2344	639
25°	2075	2103	2149	2192	2211	956
35°	1806	1836	1896	1940	1956	1129
45°	1473	1505	1553	1590	1599	1135
55°	1098	1121	1154	1181	1190	979
65°	692	706	728	735	747	687
75°	315	319	331	338	342	339
85°	57	69	69	64	67	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2371.5	2371.5	2371.5	2371.5	2371.5
2.5°	2373.8	2369.2	2364.6	2373.8	2378.4
5°	2364.6	2362.3	2362.3	2373.8	2378.4
7.5°	2348.5	2348.5	2355.4	2371.5	2376.1
10°	2327.8	2332.4	2341.6	2364.6	2371.5
12.5°	2300.3	2309.4	2325.5	2353.1	2362.3
15°	2265.8	2277.3	2302.6	2332.4	2343.9
17.5°	2226.7	2242.8	2275.0	2309.4	2320.9
20°	2180.8	2201.4	2238.2	2277.3	2291.1
22.5°	2130.2	2155.5	2196.8	2238.2	2254.3
25°	2075.1	2102.6	2148.6	2192.2	2210.6
27.5°	2017.6	2045.2	2095.7	2139.4	2157.8
30°	1948.7	1980.8	2033.7	2079.6	2095.7
32.5°	1882.0	1914.2	1969.3	2010.7	2026.8
35°	1806.2	1836.1	1895.8	1939.5	1955.6
37.5°	1725.8	1760.2	1817.7	1856.7	1870.5
40°	1647.6	1677.5	1732.7	1771.7	1785.5
42.5°	1560.3	1592.5	1647.6	1682.1	1693.6
45°	1473.0	1505.2	1553.4	1590.2	1599.4
47.5°	1383.4	1413.2	1461.5	1491.4	1500.6
50°	1286.9	1314.4	1360.4	1390.3	1401.8
52.5°	1194.9	1220.2	1259.3	1284.6	1291.5
55°	1098.4	1121.4	1153.6	1181.1	1190.3
57.5°	995.0	1020.3	1050.2	1073.1	1080.0
60°	896.2	916.9	942.2	962.8	965.1
62.5°	799.7	808.9	831.9	850.2	852.5
65°	691.7	705.5	728.5	735.3	746.8
67.5°	592.9	602.1	620.4	629.6	638.8
70°	491.8	498.7	517.0	528.5	530.8
72.5°	404.4	406.7	420.5	429.7	432.0
75°	314.8	319.4	330.9	337.8	342.4
77.5°	239.0	243.6	252.8	257.4	257.4
80°	167.8	174.6	183.8	186.1	188.4
82.5°	108.0	117.2	124.1	126.4	121.8
85°	57.4	68.9	68.9	64.3	66.6
87.5°	20.7	25.3	27.6	29.9	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)