

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: P297251

Luminaire Tested: **D3X-WG-74L92765-LD5-UNV-24-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297251
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-74L92765-LD5-UNV-24-T1-W2A-2700K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5478.0 lumens
Efficiency: N/A
Efficacy: 99.6 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

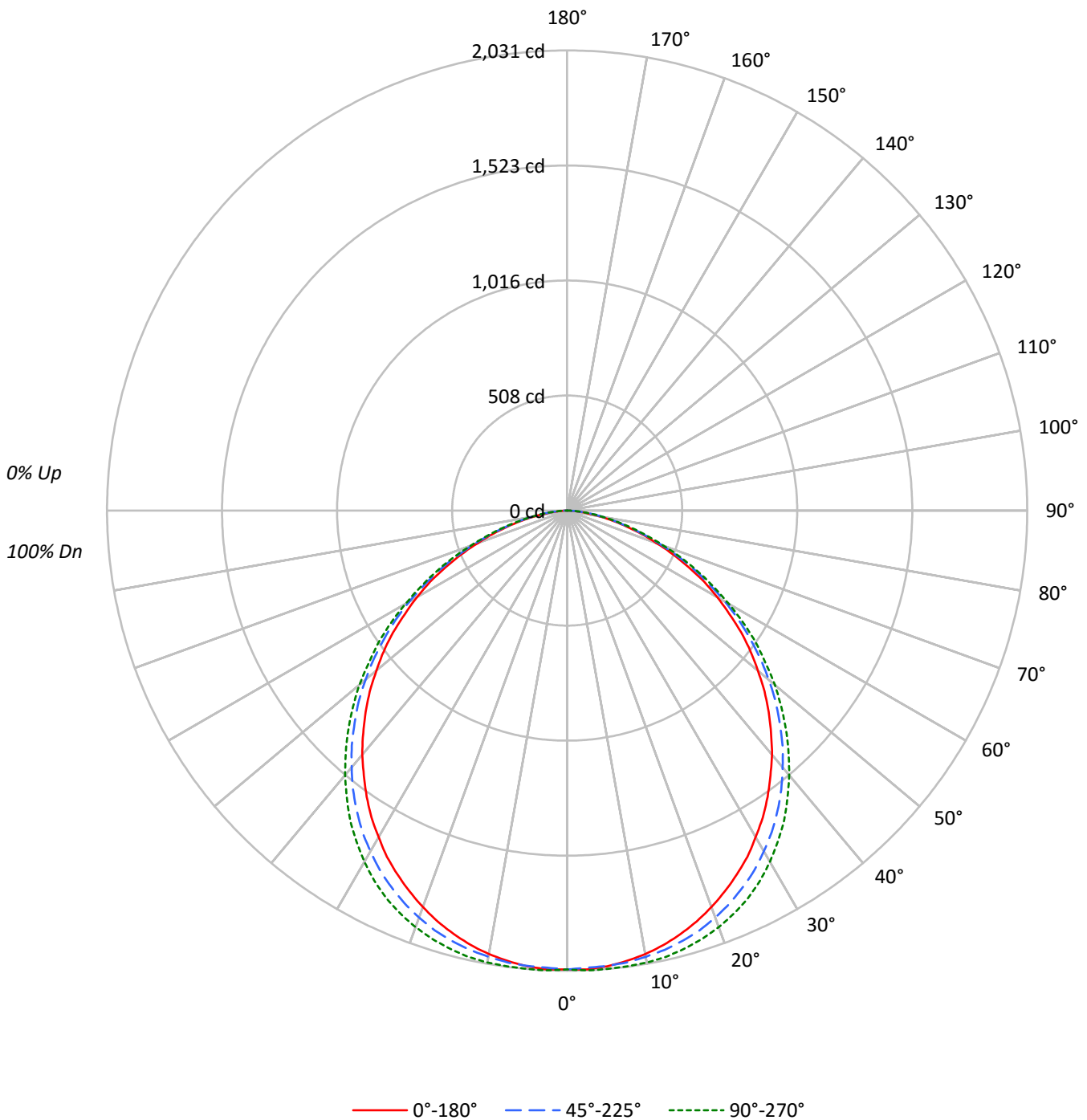
Input Watts (W): 55
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	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	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	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	27	38	32	27	37	31	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2725	2725	2725
5°	2727	2725	2743
10°	2716	2732	2767
15°	2695	2739	2788
20°	2666	2737	2801
25°	2631	2724	2802
30°	2585	2698	2780
35°	2533	2659	2743
40°	2471	2599	2678
45°	2393	2524	2599
50°	2300	2432	2506
55°	2200	2311	2384
60°	2059	2165	2218
65°	1881	1981	2030
70°	1652	1737	1783
75°	1397	1469	1520
80°	1110	1216	1247
85°	758	909	878



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.4	3.5
10°-20°	555.5	10.1
20°-30°	844.2	15.4
30°-40°	1007.4	18.4
40°-50°	1017.4	18.6
50°-60°	876.6	16.0
60°-70°	611.1	11.2
70°-80°	302.8	5.5
80°-90°	70.6	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°	1592.2	29.1
0°-40°	2599.5	47.5
0°-60°	4493.5	82.0
0°-90°	5478.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5478.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2025	2025	2025	2025	2025	
5°	2019	2017	2017	2027	2031	192
15°	1935	1945	1966	1992	2002	546
25°	1772	1796	1835	1872	1888	816
35°	1542	1568	1619	1656	1670	964
45°	1258	1285	1326	1358	1366	970
55°	938	958	985	1009	1016	836
65°	591	602	622	628	638	587
75°	269	273	283	288	292	290
85°	49	59	59	55	57	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2025.1	2025.1	2025.1	2025.1	2025.1
2.5°	2027.1	2023.1	2019.2	2027.1	2031.0
5°	2019.2	2017.3	2017.3	2027.1	2031.0
7.5°	2005.5	2005.5	2011.4	2025.1	2029.0
10°	1987.8	1991.7	1999.6	2019.2	2025.1
12.5°	1964.3	1972.1	1985.9	2009.4	2017.3
15°	1934.8	1944.6	1966.2	1991.7	2001.6
17.5°	1901.5	1915.2	1942.7	1972.1	1981.9
20°	1862.2	1879.9	1911.3	1944.6	1956.4
22.5°	1819.1	1840.6	1876.0	1911.3	1925.0
25°	1772.0	1795.5	1834.8	1872.0	1887.7
27.5°	1722.9	1746.5	1789.6	1826.9	1842.6
30°	1664.0	1691.5	1736.6	1775.9	1789.6
32.5°	1607.1	1634.6	1681.7	1717.0	1730.8
35°	1542.4	1567.9	1618.9	1656.2	1669.9
37.5°	1473.7	1503.1	1552.2	1585.5	1597.3
40°	1407.0	1432.5	1479.6	1512.9	1524.7
42.5°	1332.4	1359.9	1407.0	1436.4	1446.2
45°	1257.8	1285.3	1326.5	1357.9	1365.8
47.5°	1181.3	1206.8	1248.0	1273.5	1281.4
50°	1098.9	1122.4	1161.7	1187.2	1197.0
52.5°	1020.4	1042.0	1075.3	1096.9	1102.8
55°	938.0	957.6	985.1	1008.6	1016.5
57.5°	849.7	871.3	896.8	916.4	922.3
60°	765.3	783.0	804.5	822.2	824.2
62.5°	682.9	690.7	710.4	726.1	728.0
65°	590.7	602.4	622.1	627.9	637.7
67.5°	506.3	514.1	529.8	537.7	545.5
70°	419.9	425.8	441.5	451.3	453.3
72.5°	345.4	347.3	359.1	367.0	368.9
75°	268.8	272.8	282.6	288.5	292.4
77.5°	204.1	208.0	215.9	219.8	219.8
80°	143.2	149.1	157.0	158.9	160.9
82.5°	92.2	100.1	106.0	107.9	104.0
85°	49.1	58.9	58.9	54.9	56.9
87.5°	17.7	21.6	23.5	25.5	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)