

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: P296812

Luminaire Tested: **D3X-WD-55L82765-LD5-UNV-24-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296812
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-55L82765-LD5-UNV-24-T1-W2A-6500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5445.0 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

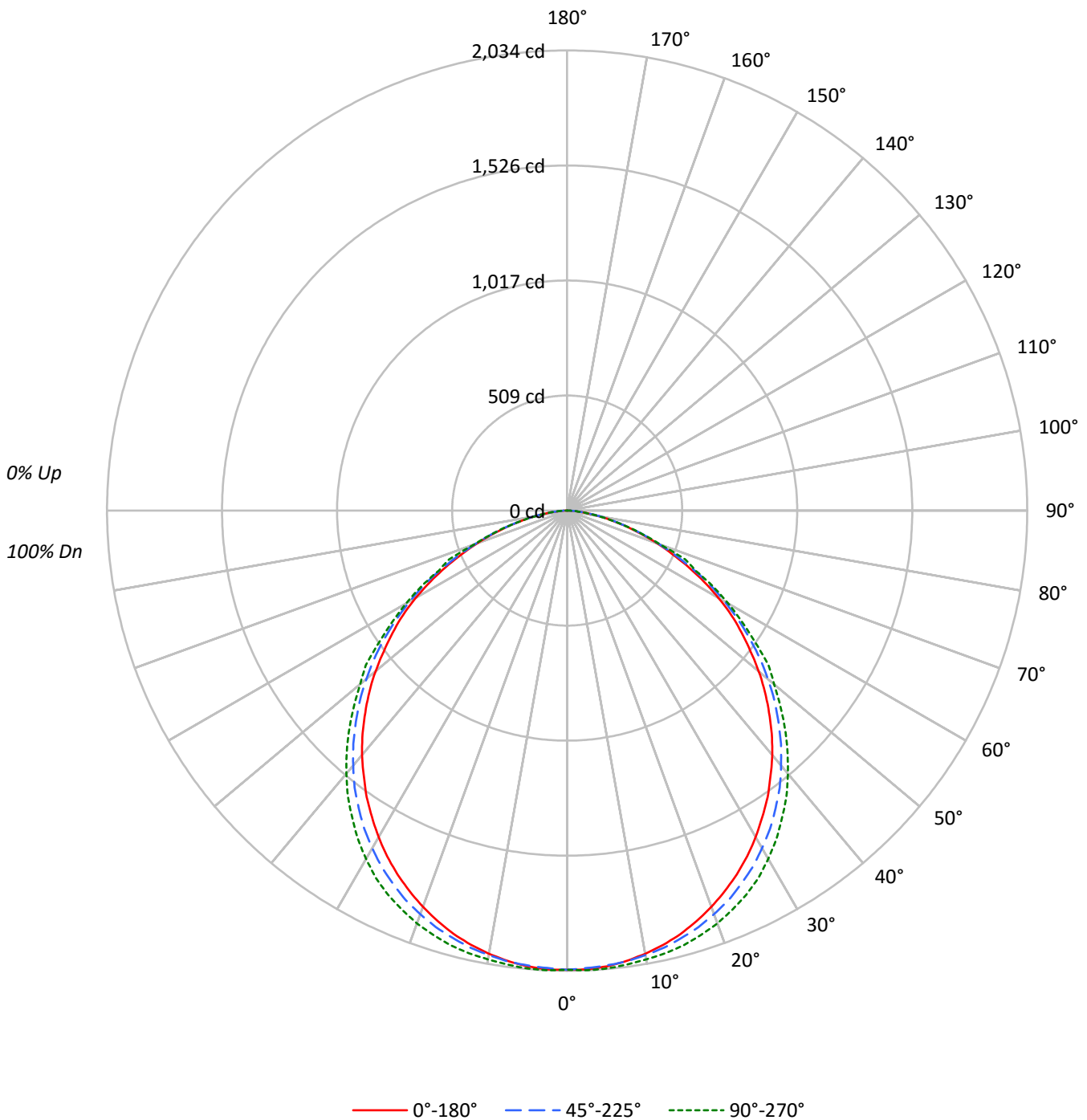
Input Watts (W): 40
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
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	48	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	28	38	32	27	37	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2731	2731	2731
5°	2731	2726	2744
10°	2717	2725	2752
15°	2700	2724	2770
20°	2669	2719	2780
25°	2634	2703	2782
30°	2589	2677	2762
35°	2538	2638	2721
40°	2477	2584	2666
45°	2402	2513	2591
50°	2315	2425	2499
55°	2209	2310	2379
60°	2082	2161	2213
65°	1891	1953	1990
70°	1660	1699	1721
75°	1402	1422	1432
80°	1120	1135	1105
85°	753	784	753



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.4	3.5
10°-20°	553.2	10.2
20°-30°	839.4	15.4
30°-40°	1002.1	18.4
40°-50°	1014.5	18.6
50°-60°	876.9	16.1
60°-70°	607.8	11.2
70°-80°	294.1	5.4
80°-90°	64.6	1.2
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°	1584.9	29.1
0°-40°	2587.0	47.5
0°-60°	4478.5	82.2
0°-90°	5445.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5445.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2030	2030	2030	2030	2030	
5°	2022	2020	2018	2028	2032	192
15°	1938	1942	1956	1979	1989	546
25°	1774	1786	1821	1858	1874	817
35°	1545	1559	1606	1647	1657	965
45°	1262	1280	1321	1354	1362	973
55°	942	951	985	1026	1014	842
65°	594	600	614	623	625	588
75°	270	272	274	272	276	289
85°	49	53	51	49	49	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2029.9	2029.9	2029.9	2029.9	2029.9
2.5°	2029.9	2027.9	2024.0	2029.9	2033.8
5°	2022.0	2020.1	2018.1	2027.9	2031.8
7.5°	2008.4	2008.4	2010.3	2020.1	2024.0
10°	1988.8	1990.8	1994.7	2010.3	2014.2
12.5°	1965.4	1969.3	1979.1	1996.6	2004.5
15°	1938.0	1941.9	1955.6	1979.1	1988.8
17.5°	1902.9	1910.7	1930.2	1957.6	1967.3
20°	1863.8	1873.6	1899.0	1930.2	1941.9
22.5°	1820.8	1830.6	1863.8	1897.0	1908.7
25°	1773.9	1785.6	1820.8	1857.9	1873.6
27.5°	1723.1	1736.8	1775.9	1815.0	1830.6
30°	1666.5	1682.1	1723.1	1764.2	1777.8
32.5°	1605.9	1621.5	1668.4	1707.5	1721.2
35°	1545.3	1559.0	1605.9	1646.9	1656.7
37.5°	1477.0	1492.6	1543.4	1578.6	1592.2
40°	1410.5	1426.2	1471.1	1506.3	1518.0
42.5°	1338.3	1353.9	1398.8	1432.0	1441.8
45°	1262.1	1279.7	1320.7	1353.9	1361.7
47.5°	1185.9	1199.5	1242.5	1271.8	1277.7
50°	1105.8	1119.4	1158.5	1187.8	1193.7
52.5°	1021.8	1043.3	1074.5	1096.0	1121.4
55°	941.7	951.4	984.6	1025.7	1014.0
57.5°	861.6	867.4	894.8	912.4	916.3
60°	773.7	781.5	803.0	812.7	822.5
62.5°	681.8	687.7	713.1	722.9	726.8
65°	593.9	599.8	613.5	623.2	625.2
67.5°	504.0	509.9	521.6	529.4	564.6
70°	422.0	425.9	431.8	447.4	437.6
72.5°	343.8	345.8	351.7	351.7	353.6
75°	269.6	271.6	273.5	271.6	275.5
77.5°	201.2	205.1	207.1	205.1	203.2
80°	144.6	148.5	146.5	142.6	142.6
82.5°	93.8	95.7	93.8	91.8	91.8
85°	48.8	52.7	50.8	48.8	48.8
87.5°	17.6	19.5	21.5	23.4	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)