

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: P297252

Luminaire Tested: **D3X-WG-74L92765-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297252
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-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5696.0 lumens
Efficiency: N/A
Efficacy: 104.5 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

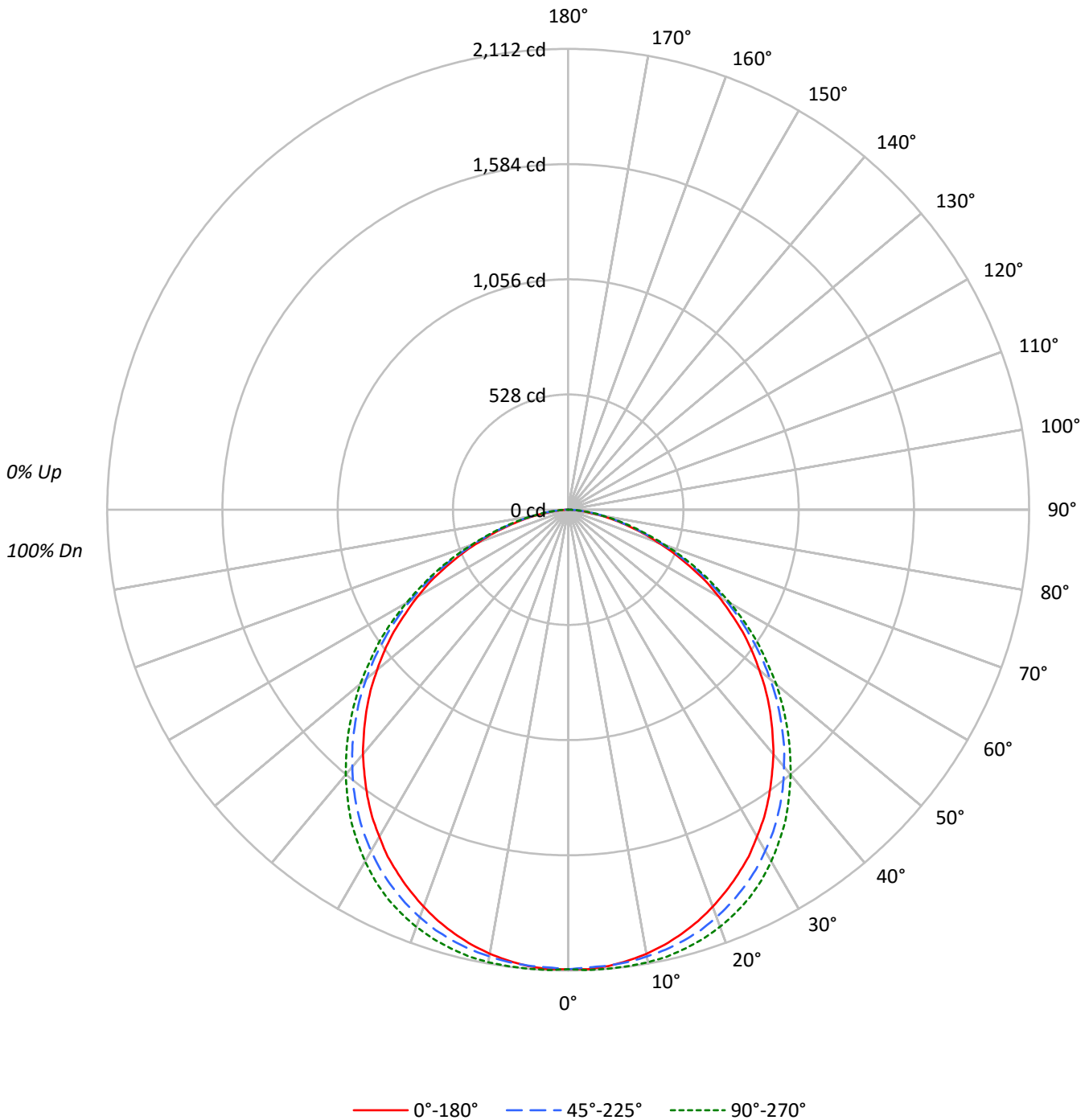
Input Watts (W): 54.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2833	2833	2833
5°	2836	2833	2852
10°	2824	2841	2877
15°	2802	2848	2899
20°	2772	2845	2913
25°	2735	2832	2914
30°	2688	2806	2891
35°	2634	2765	2852
40°	2570	2702	2785
45°	2489	2625	2702
50°	2392	2528	2605
55°	2288	2403	2479
60°	2141	2251	2306
65°	1955	2059	2111
70°	1718	1806	1854
75°	1453	1527	1580
80°	1154	1265	1296
85°	787	945	914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.1	3.5
10°-20°	577.6	10.1
20°-30°	877.8	15.4
30°-40°	1047.5	18.4
40°-50°	1057.9	18.6
50°-60°	911.5	16.0
60°-70°	635.4	11.2
70°-80°	314.9	5.5
80°-90°	73.4	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°	1655.5	29.1
0°-40°	2703.0	47.5
0°-60°	4672.3	82.0
0°-90°	5696.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5696.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2106	2106	2106	2106	2106	
5°	2100	2098	2098	2108	2112	199
15°	2012	2022	2044	2071	2081	567
25°	1842	1867	1908	1946	1963	849
35°	1604	1630	1683	1722	1736	1002
45°	1308	1336	1379	1412	1420	1008
55°	975	996	1024	1049	1057	869
65°	614	626	647	653	663	610
75°	280	284	294	300	304	301
85°	51	61	61	57	59	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2105.7	2105.7	2105.7	2105.7	2105.7
2.5°	2107.7	2103.7	2099.6	2107.7	2111.8
5°	2099.6	2097.5	2097.5	2107.7	2111.8
7.5°	2085.3	2085.3	2091.4	2105.7	2109.8
10°	2066.9	2071.0	2079.2	2099.6	2105.7
12.5°	2042.4	2050.6	2064.9	2089.4	2097.5
15°	2011.8	2022.0	2044.5	2071.0	2081.2
17.5°	1977.1	1991.4	2020.0	2050.6	2060.8
20°	1936.3	1954.7	1987.3	2022.0	2034.3
22.5°	1891.4	1913.9	1950.6	1987.3	2001.6
25°	1842.5	1867.0	1907.8	1946.5	1962.9
27.5°	1791.5	1816.0	1860.8	1899.6	1915.9
30°	1730.3	1758.8	1805.8	1846.6	1860.8
32.5°	1671.1	1699.7	1748.6	1785.3	1799.6
35°	1603.8	1630.3	1683.3	1722.1	1736.4
37.5°	1532.3	1562.9	1614.0	1648.6	1660.9
40°	1463.0	1489.5	1538.5	1573.1	1585.4
42.5°	1385.4	1414.0	1463.0	1493.6	1503.8
45°	1307.9	1336.5	1379.3	1412.0	1420.1
47.5°	1228.3	1254.8	1297.7	1324.2	1332.4
50°	1142.6	1167.1	1207.9	1234.4	1244.6
52.5°	1061.0	1083.5	1118.1	1140.6	1146.7
55°	975.3	995.7	1024.3	1048.8	1056.9
57.5°	883.5	905.9	932.5	952.9	959.0
60°	795.8	814.1	836.6	854.9	857.0
62.5°	710.1	718.2	738.6	754.9	757.0
65°	614.2	626.4	646.8	652.9	663.1
67.5°	526.4	534.6	550.9	559.1	567.2
70°	436.6	442.8	459.1	469.3	471.3
72.5°	359.1	361.2	373.4	381.6	383.6
75°	279.5	283.6	293.8	299.9	304.0
77.5°	212.2	216.3	224.4	228.5	228.5
80°	148.9	155.1	163.2	165.3	167.3
82.5°	95.9	104.1	110.2	112.2	108.1
85°	51.0	61.2	61.2	57.1	59.2
87.5°	18.4	22.4	24.5	26.5	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)