

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: P296892

Luminaire Tested: **D3X-WD-74L93050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296892
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-74L93050-LD5-UNV-24-T1-W2A-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6518.0 lumens
Efficiency: N/A
Efficacy: 113.6 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

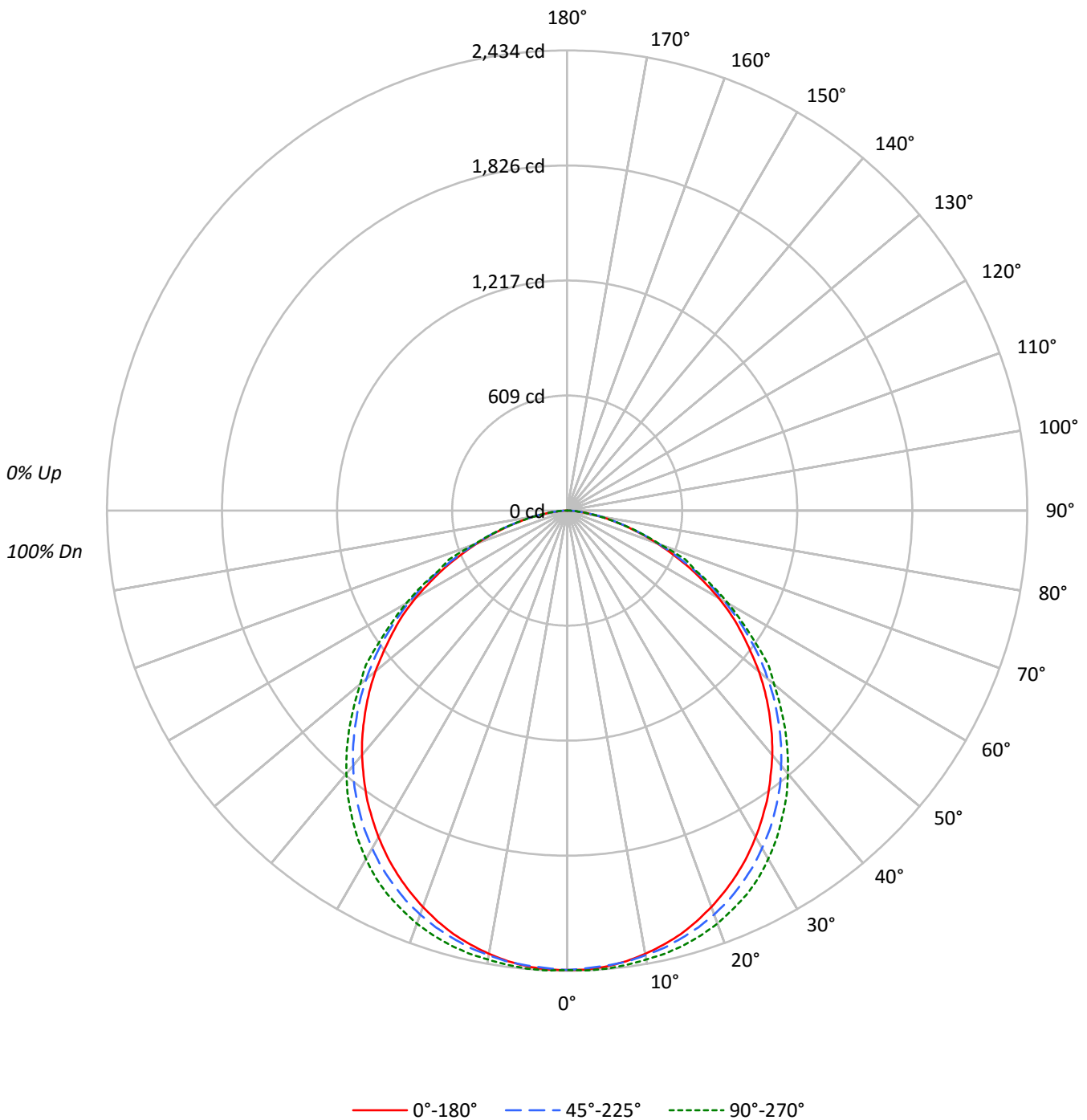
Input Watts (W): 57.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3269	3269	3269
5°	3269	3263	3285
10°	3253	3262	3294
15°	3232	3261	3316
20°	3195	3255	3328
25°	3153	3236	3330
30°	3099	3205	3306
35°	3039	3158	3257
40°	2966	3093	3192
45°	2875	3008	3102
50°	2771	2903	2991
55°	2644	2765	2847
60°	2492	2587	2650
65°	2264	2338	2383
70°	1987	2033	2061
75°	1678	1702	1714
80°	1341	1359	1323
85°	903	939	903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.3	3.5
10°-20°	662.2	10.2
20°-30°	1004.8	15.4
30°-40°	1199.6	18.4
40°-50°	1214.4	18.6
50°-60°	1049.7	16.1
60°-70°	727.6	11.2
70°-80°	352.0	5.4
80°-90°	77.4	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°	1897.3	29.1
0°-40°	3096.8	47.5
0°-60°	5361.0	82.2
0°-90°	6518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6518.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2430	2430	2430	2430	2430	
5°	2420	2418	2416	2428	2432	230
15°	2320	2325	2341	2369	2381	654
25°	2124	2138	2180	2224	2243	978
35°	1850	1866	1922	1972	1983	1156
45°	1511	1532	1581	1621	1630	1165
55°	1127	1139	1179	1228	1214	1007
65°	711	718	734	746	748	704
75°	323	325	327	325	330	346
85°	58	63	61	58	58	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2429.9	2429.9	2429.9	2429.9	2429.9
2.5°	2429.9	2427.5	2422.8	2429.9	2434.5
5°	2420.5	2418.2	2415.8	2427.5	2432.2
7.5°	2404.1	2404.1	2406.5	2418.2	2422.8
10°	2380.8	2383.1	2387.8	2406.5	2411.2
12.5°	2352.7	2357.4	2369.1	2390.1	2399.5
15°	2319.9	2324.6	2341.0	2369.1	2380.8
17.5°	2277.9	2287.2	2310.6	2343.3	2355.0
20°	2231.1	2242.8	2273.2	2310.6	2324.6
22.5°	2179.6	2191.3	2231.1	2270.8	2284.9
25°	2123.5	2137.5	2179.6	2224.1	2242.8
27.5°	2062.7	2079.1	2125.8	2172.6	2191.3
30°	1994.9	2013.6	2062.7	2111.8	2128.2
32.5°	1922.4	1941.1	1997.2	2044.0	2060.4
35°	1849.9	1866.2	1922.4	1971.5	1983.2
37.5°	1768.0	1786.7	1847.5	1889.6	1906.0
40°	1688.5	1707.2	1761.0	1803.1	1817.1
42.5°	1602.0	1620.7	1674.5	1714.2	1725.9
45°	1510.8	1531.8	1580.9	1620.7	1630.0
47.5°	1419.6	1435.9	1487.4	1522.5	1529.5
50°	1323.7	1340.1	1386.8	1421.9	1428.9
52.5°	1223.1	1248.8	1286.3	1312.0	1342.4
55°	1127.2	1138.9	1178.7	1227.8	1213.8
57.5°	1031.3	1038.4	1071.1	1092.2	1096.8
60°	926.1	935.5	961.2	972.9	984.6
62.5°	816.2	823.2	853.6	865.3	870.0
65°	711.0	718.0	734.3	746.0	748.4
67.5°	603.4	610.4	624.4	633.8	675.9
70°	505.1	509.8	516.8	535.6	523.9
72.5°	411.6	413.9	421.0	421.0	423.3
75°	322.7	325.1	327.4	325.1	329.8
77.5°	240.9	245.6	247.9	245.6	243.2
80°	173.1	177.7	175.4	170.7	170.7
82.5°	112.3	114.6	112.3	109.9	109.9
85°	58.5	63.1	60.8	58.5	58.5
87.5°	21.0	23.4	25.7	28.1	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)