

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: P297170

Luminaire Tested: **D3X-WG-74L93050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297170
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-74L93050-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5942.0 lumens
Efficiency: N/A
Efficacy: 105.9 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

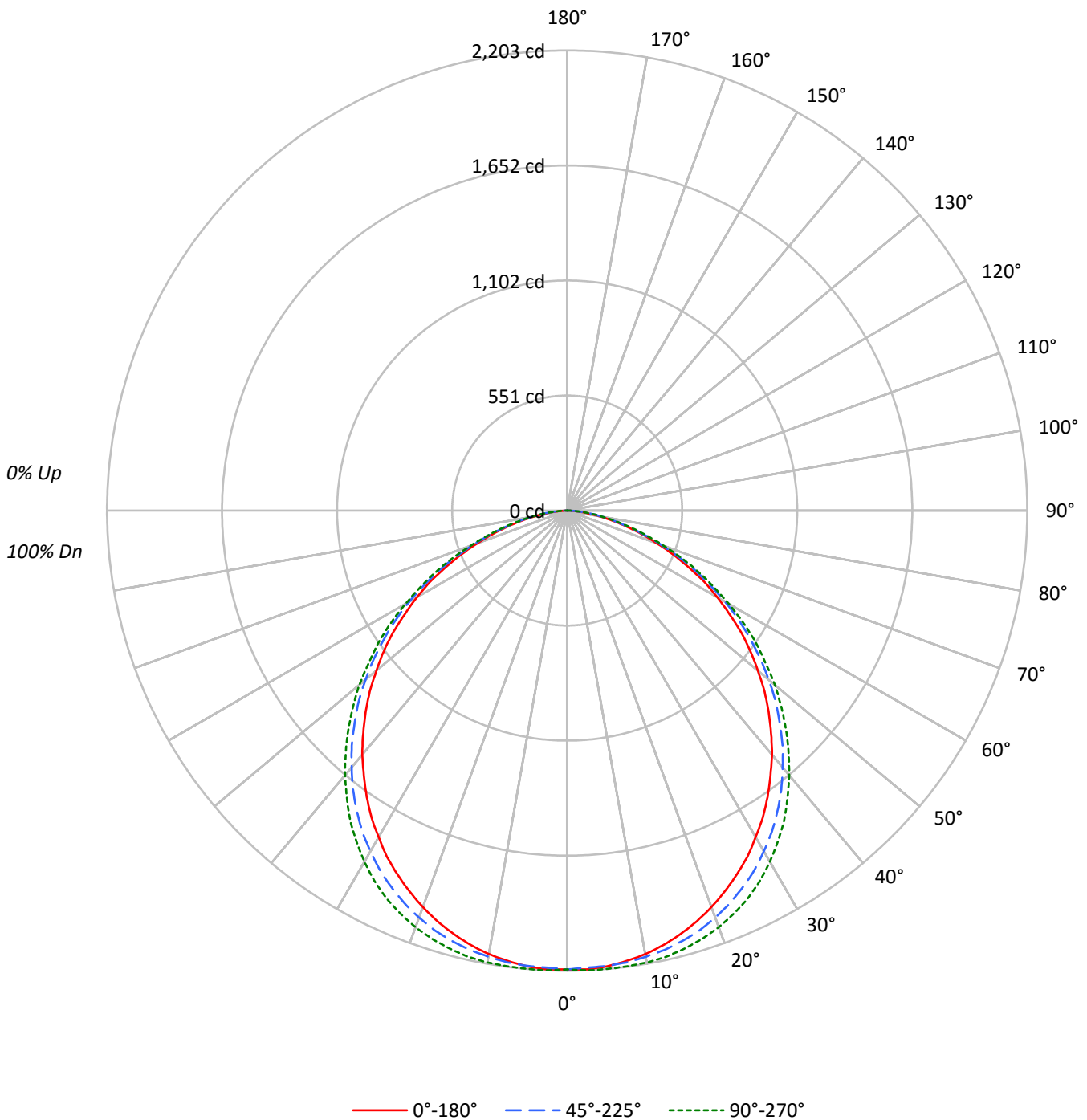
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2956	2956	2956
5°	2958	2955	2975
10°	2946	2963	3001
15°	2923	2971	3024
20°	2892	2968	3039
25°	2854	2955	3040
30°	2804	2927	3016
35°	2748	2884	2975
40°	2680	2819	2905
45°	2596	2738	2819
50°	2495	2638	2718
55°	2387	2506	2586
60°	2234	2348	2406
65°	2040	2148	2202
70°	1792	1884	1934
75°	1516	1593	1648
80°	1204	1320	1352
85°	821	986	953



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.7	3.5
10°-20°	602.6	10.1
20°-30°	915.7	15.4
30°-40°	1092.7	18.4
40°-50°	1103.6	18.6
50°-60°	950.8	16.0
60°-70°	662.8	11.2
70°-80°	328.5	5.5
80°-90°	76.6	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°	1727.0	29.1
0°-40°	2819.7	47.5
0°-60°	4874.1	82.0
0°-90°	5942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5942.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2197	2197	2197	2197	2197	
5°	2190	2188	2188	2199	2203	208
15°	2099	2109	2133	2160	2171	592
25°	1922	1948	1990	2031	2048	885
35°	1673	1701	1756	1796	1811	1046
45°	1364	1394	1439	1473	1481	1052
55°	1017	1039	1068	1094	1103	907
65°	641	654	675	681	692	636
75°	292	296	306	313	317	314
85°	53	64	64	60	62	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2196.6	2196.6	2196.6	2196.6	2196.6
2.5°	2198.8	2194.5	2190.2	2198.8	2203.0
5°	2190.2	2188.1	2188.1	2198.8	2203.0
7.5°	2175.3	2175.3	2181.7	2196.6	2200.9
10°	2156.2	2160.4	2169.0	2190.2	2196.6
12.5°	2130.6	2139.2	2154.1	2179.6	2188.1
15°	2098.7	2109.4	2132.8	2160.4	2171.1
17.5°	2062.5	2077.4	2107.2	2139.2	2149.8
20°	2020.0	2039.1	2073.2	2109.4	2122.1
22.5°	1973.1	1996.6	2034.9	2073.2	2088.1
25°	1922.1	1947.6	1990.2	2030.6	2047.6
27.5°	1868.8	1894.4	1941.2	1981.7	1998.7
30°	1805.0	1834.8	1883.7	1926.3	1941.2
32.5°	1743.3	1773.1	1824.1	1862.5	1877.4
35°	1673.0	1700.7	1756.0	1796.5	1811.4
37.5°	1598.5	1630.4	1683.7	1719.8	1732.6
40°	1526.1	1553.8	1604.9	1641.1	1653.9
42.5°	1445.3	1475.1	1526.1	1558.1	1568.7
45°	1364.4	1394.2	1438.9	1472.9	1481.4
47.5°	1281.4	1309.0	1353.7	1381.4	1389.9
50°	1192.0	1217.5	1260.1	1287.8	1298.4
52.5°	1106.8	1130.2	1166.4	1189.8	1196.2
55°	1017.4	1038.7	1068.5	1094.1	1102.6
57.5°	921.6	945.1	972.7	994.0	1000.4
60°	830.1	849.3	872.7	891.8	894.0
62.5°	740.7	749.2	770.5	787.6	789.7
65°	640.7	653.5	674.7	681.1	691.8
67.5°	549.2	557.7	574.7	583.2	591.7
70°	455.5	461.9	478.9	489.6	491.7
72.5°	374.6	376.7	389.5	398.0	400.2
75°	291.6	295.9	306.5	312.9	317.1
77.5°	221.4	225.6	234.1	238.4	238.4
80°	155.4	161.8	170.3	172.4	174.5
82.5°	100.0	108.6	114.9	117.1	112.8
85°	53.2	63.9	63.9	59.6	61.7
87.5°	19.2	23.4	25.5	27.7	27.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)