

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: P297172

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297172
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-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6529.0 lumens
Efficiency: N/A
Efficacy: 113.7 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

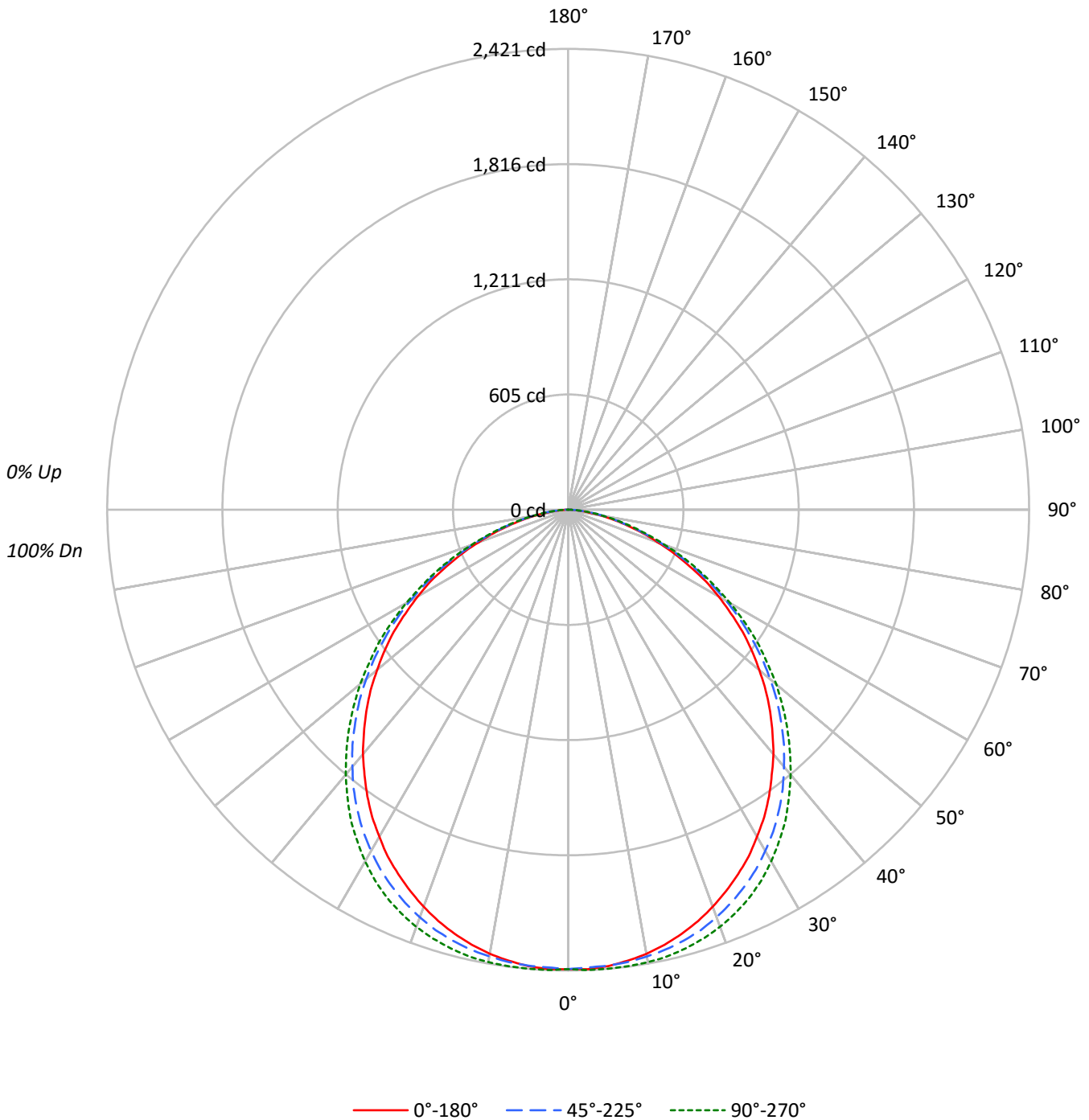
Input Watts (W): 57.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3247	3247	3247
5°	3250	3247	3269
10°	3237	3256	3298
15°	3212	3264	3323
20°	3178	3262	3339
25°	3135	3246	3340
30°	3081	3216	3314
35°	3019	3169	3269
40°	2945	3097	3192
45°	2853	3008	3097
50°	2741	2898	2986
55°	2622	2754	2842
60°	2454	2580	2643
65°	2241	2360	2420
70°	1969	2070	2126
75°	1666	1751	1812
80°	1323	1450	1486
85°	903	1084	1047



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.3	3.5
10°-20°	662.1	10.1
20°-30°	1006.2	15.4
30°-40°	1200.6	18.4
40°-50°	1212.6	18.6
50°-60°	1044.7	16.0
60°-70°	728.3	11.2
70°-80°	360.9	5.5
80°-90°	84.2	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°	1897.6	29.1
0°-40°	3098.3	47.5
0°-60°	5355.6	82.0
0°-90°	6529.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6529.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2414	2414	2414	2414	2414	
5°	2407	2404	2404	2416	2421	228
15°	2306	2318	2344	2374	2386	650
25°	2112	2140	2187	2231	2250	973
35°	1838	1869	1930	1974	1990	1149
45°	1499	1532	1581	1618	1628	1156
55°	1118	1141	1174	1202	1212	996
65°	704	718	741	748	760	699
75°	320	325	337	344	348	345
85°	58	70	70	66	68	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2413.6	2413.6	2413.6	2413.6	2413.6
2.5°	2416.0	2411.3	2406.6	2416.0	2420.6
5°	2406.6	2404.3	2404.3	2416.0	2420.6
7.5°	2390.2	2390.2	2397.3	2413.6	2418.3
10°	2369.2	2373.9	2383.2	2406.6	2413.6
12.5°	2341.1	2350.5	2366.9	2394.9	2404.3
15°	2306.0	2317.7	2343.5	2373.9	2385.6
17.5°	2266.3	2282.7	2315.4	2350.5	2362.2
20°	2219.5	2240.6	2278.0	2317.7	2331.8
22.5°	2168.1	2193.8	2235.9	2278.0	2294.4
25°	2111.9	2140.0	2186.8	2231.2	2249.9
27.5°	2053.5	2081.5	2133.0	2177.4	2196.1
30°	1983.3	2016.0	2069.8	2116.6	2133.0
32.5°	1915.5	1948.2	2004.3	2046.4	2062.8
35°	1838.3	1868.7	1929.5	1973.9	1990.3
37.5°	1756.4	1791.5	1850.0	1889.7	1903.8
40°	1676.9	1707.3	1763.4	1803.2	1817.2
42.5°	1588.0	1620.8	1676.9	1712.0	1723.7
45°	1499.2	1531.9	1581.0	1618.4	1627.8
47.5°	1408.0	1438.4	1487.5	1517.9	1527.2
50°	1309.7	1337.8	1384.6	1415.0	1426.7
52.5°	1216.2	1241.9	1281.7	1307.4	1314.4
55°	1117.9	1141.3	1174.1	1202.1	1211.5
57.5°	1012.7	1038.4	1068.8	1092.2	1099.2
60°	912.1	933.2	958.9	980.0	982.3
62.5°	813.9	823.3	846.6	865.4	867.7
65°	704.0	718.0	741.4	748.4	760.1
67.5°	603.4	612.8	631.5	640.8	650.2
70°	500.5	507.5	526.2	537.9	540.3
72.5°	411.6	414.0	428.0	437.4	439.7
75°	320.4	325.1	336.8	343.8	348.5
77.5°	243.2	247.9	257.3	261.9	261.9
80°	170.7	177.7	187.1	189.4	191.8
82.5°	109.9	119.3	126.3	128.6	124.0
85°	58.5	70.2	70.2	65.5	67.8
87.5°	21.0	25.7	28.1	30.4	30.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)