

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: P297169

Luminaire Tested: **D3X-WG-74L93050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297169
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-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: 5439.0 lumens
Efficiency: N/A
Efficacy: 96.4 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

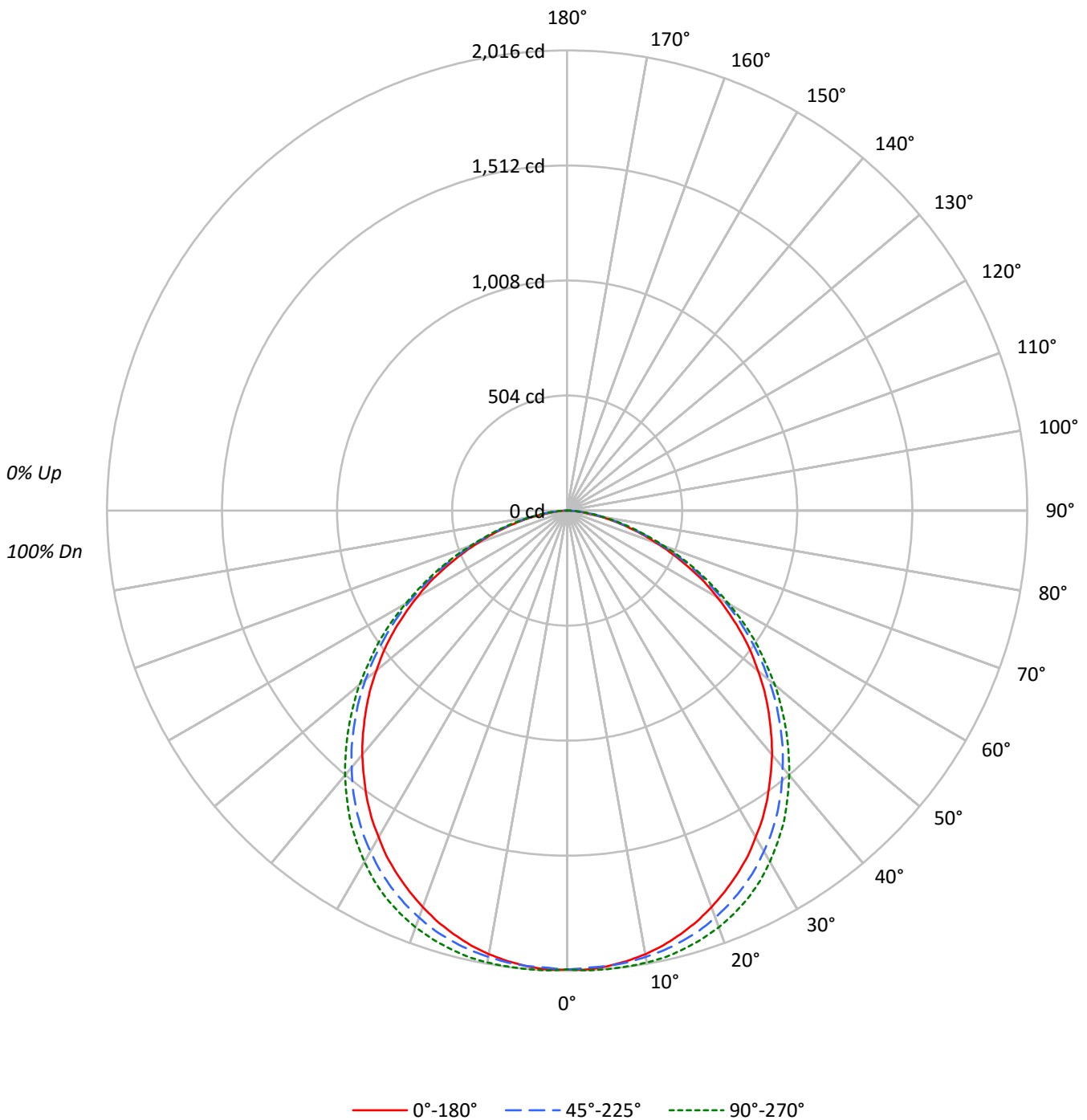
Input Watts (W): 56.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P297169

CATALOG NUMBER: D3X-WG-74L93050-LD5-UNV-24-T1-W2A-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P297169

CATALOG NUMBER: D3X-WG-74L93050-LD5-UNV-24-T1-W2A-3000K

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	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
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	47	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	27	38	32	27	37	31	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2705	2705	2705
5°	2708	2705	2724
10°	2697	2713	2747
15°	2676	2719	2768
20°	2647	2717	2781
25°	2612	2704	2783
30°	2567	2679	2761
35°	2515	2640	2723
40°	2454	2580	2659
45°	2376	2506	2580
50°	2284	2414	2488
55°	2185	2294	2367
60°	2045	2150	2202
65°	1867	1966	2016
70°	1640	1725	1771
75°	1387	1459	1509
80°	1102	1208	1238
85°	752	903	872



TEST NUMBER: P297169

CATALOG NUMBER: D3X-WG-74L93050-LD5-UNV-24-T1-W2A-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.0	3.5
10°-20°	551.6	10.1
20°-30°	838.2	15.4
30°-40°	1000.2	18.4
40°-50°	1010.2	18.6
50°-60°	870.3	16.0
60°-70°	606.7	11.2
70°-80°	300.7	5.5
80°-90°	70.1	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°	1580.8	29.1
0°-40°	2581.0	47.5
0°-60°	4461.5	82.0
0°-90°	5439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5439.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2011	2011	2011	2011	2011	
5°	2005	2003	2003	2013	2016	190
15°	1921	1931	1952	1978	1987	542
25°	1759	1783	1822	1859	1874	810
35°	1531	1557	1607	1644	1658	957
45°	1249	1276	1317	1348	1356	963
55°	931	951	978	1001	1009	830
65°	586	598	618	624	633	582
75°	267	271	281	286	290	288
85°	49	58	58	55	56	62
90°	0	0	0	0	0	



TEST NUMBER: P297169

CATALOG NUMBER: D3X-WG-74L93050-LD5-UNV-24-T1-W2A-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2010.7	2010.7	2010.7	2010.7	2010.7
2.5°	2012.6	2008.7	2004.8	2012.6	2016.5
5°	2004.8	2002.9	2002.9	2012.6	2016.5
7.5°	1991.2	1991.2	1997.0	2010.7	2014.6
10°	1973.7	1977.6	1985.4	2004.8	2010.7
12.5°	1950.3	1958.1	1971.7	1995.1	2002.9
15°	1921.1	1930.8	1952.2	1977.6	1987.3
17.5°	1887.9	1901.6	1928.9	1958.1	1967.8
20°	1849.0	1866.5	1897.7	1930.8	1942.5
22.5°	1806.1	1827.5	1862.6	1897.7	1911.3
25°	1759.3	1782.7	1821.7	1858.7	1874.3
27.5°	1710.6	1734.0	1776.9	1813.9	1829.5
30°	1652.2	1679.5	1724.3	1763.2	1776.9
32.5°	1595.7	1623.0	1669.7	1704.8	1718.4
35°	1531.4	1556.7	1607.4	1644.4	1658.0
37.5°	1463.2	1492.4	1541.1	1574.3	1585.9
40°	1397.0	1422.3	1469.0	1502.2	1513.9
42.5°	1322.9	1350.2	1397.0	1426.2	1435.9
45°	1248.9	1276.2	1317.1	1348.2	1356.0
47.5°	1172.9	1198.2	1239.1	1264.5	1272.3
50°	1091.1	1114.4	1153.4	1178.7	1188.5
52.5°	1013.1	1034.6	1067.7	1089.1	1095.0
55°	931.3	950.8	978.1	1001.4	1009.2
57.5°	843.6	865.1	890.4	909.9	915.7
60°	759.9	777.4	798.8	816.4	818.3
62.5°	678.0	685.8	705.3	720.9	722.8
65°	586.4	598.1	617.6	623.5	633.2
67.5°	502.7	510.5	526.1	533.8	541.6
70°	416.9	422.8	438.4	448.1	450.1
72.5°	342.9	344.9	356.5	364.3	366.3
75°	266.9	270.8	280.6	286.4	290.3
77.5°	202.6	206.5	214.3	218.2	218.2
80°	142.2	148.1	155.9	157.8	159.8
82.5°	91.6	99.4	105.2	107.2	103.3
85°	48.7	58.5	58.5	54.6	56.5
87.5°	17.5	21.4	23.4	25.3	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)