

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: P296866

Luminaire Tested: **D3X-WD-45L93050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296866
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-45L93050-LD5-UNV-24-T1-W2A-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3918.0 lumens
Efficiency: N/A
Efficacy: 120.9 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

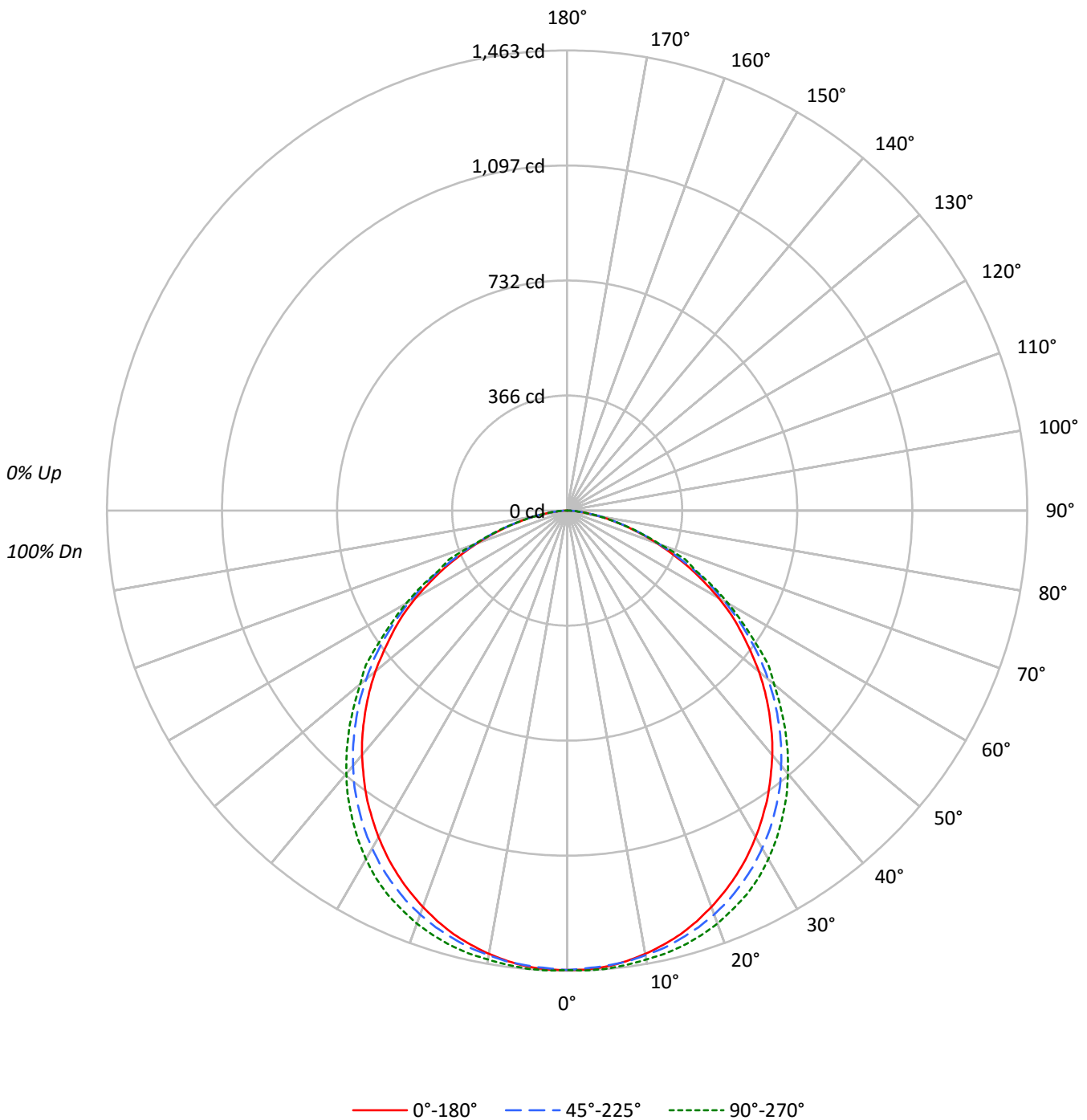
Input Watts (W): 32.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1965	1965	1965
5°	1965	1961	1975
10°	1955	1961	1980
15°	1942	1960	1993
20°	1920	1956	2001
25°	1895	1945	2001
30°	1863	1926	1988
35°	1827	1898	1958
40°	1783	1859	1919
45°	1728	1808	1864
50°	1666	1745	1798
55°	1590	1662	1711
60°	1498	1555	1593
65°	1361	1405	1432
70°	1194	1222	1239
75°	1009	1023	1030
80°	806	817	795
85°	542	565	542



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	3.5
10°-20°	398.1	10.2
20°-30°	604.0	15.4
30°-40°	721.1	18.4
40°-50°	730.0	18.6
50°-60°	631.0	16.1
60°-70°	437.3	11.2
70°-80°	211.6	5.4
80°-90°	46.5	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°	1140.5	29.1
0°-40°	1861.5	47.5
0°-60°	3222.5	82.2
0°-90°	3918.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3918.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1461	1461	1461	1461	1461	
5°	1455	1454	1452	1459	1462	138
15°	1394	1397	1407	1424	1431	393
25°	1276	1285	1310	1337	1348	588
35°	1112	1122	1156	1185	1192	695
45°	908	921	950	974	980	700
55°	678	685	708	738	730	606
65°	427	432	441	448	450	423
75°	194	195	197	195	198	208
85°	35	38	37	35	35	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1460.6	1460.6	1460.6	1460.6	1460.6
2.5°	1460.6	1459.2	1456.4	1460.6	1463.4
5°	1455.0	1453.6	1452.2	1459.2	1462.0
7.5°	1445.1	1445.1	1446.5	1453.6	1456.4
10°	1431.1	1432.5	1435.3	1446.5	1449.4
12.5°	1414.2	1417.0	1424.1	1436.7	1442.3
15°	1394.5	1397.3	1407.2	1424.1	1431.1
17.5°	1369.2	1374.8	1388.9	1408.6	1415.6
20°	1341.1	1348.1	1366.4	1388.9	1397.3
22.5°	1310.2	1317.2	1341.1	1365.0	1373.4
25°	1276.4	1284.9	1310.2	1336.9	1348.1
27.5°	1239.9	1249.7	1277.9	1306.0	1317.2
30°	1199.1	1210.4	1239.9	1269.4	1279.3
32.5°	1155.5	1166.8	1200.5	1228.6	1238.5
35°	1112.0	1121.8	1155.5	1185.1	1192.1
37.5°	1062.8	1074.0	1110.6	1135.9	1145.7
40°	1015.0	1026.2	1058.6	1083.9	1092.3
42.5°	963.0	974.2	1006.5	1030.4	1037.5
45°	908.1	920.8	950.3	974.2	979.8
47.5°	853.3	863.1	894.1	915.2	919.4
50°	795.7	805.5	833.6	854.7	858.9
52.5°	735.2	750.7	773.2	788.6	806.9
55°	677.6	684.6	708.5	738.0	729.6
57.5°	619.9	624.2	643.8	656.5	659.3
60°	556.7	562.3	577.8	584.8	591.8
62.5°	490.6	494.8	513.1	520.1	522.9
65°	427.4	431.6	441.4	448.4	449.8
67.5°	362.7	366.9	375.3	381.0	406.3
70°	303.6	306.5	310.7	321.9	314.9
72.5°	247.4	248.8	253.0	253.0	254.4
75°	194.0	195.4	196.8	195.4	198.2
77.5°	144.8	147.6	149.0	147.6	146.2
80°	104.0	106.8	105.4	102.6	102.6
82.5°	67.5	68.9	67.5	66.1	66.1
85°	35.1	38.0	36.6	35.1	35.1
87.5°	12.7	14.1	15.5	16.9	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)