

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: P297146

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297146
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-45L93050-LD5-UNV-24-T1-W2A-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3925.0 lumens
Efficiency: N/A
Efficacy: 121.1 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

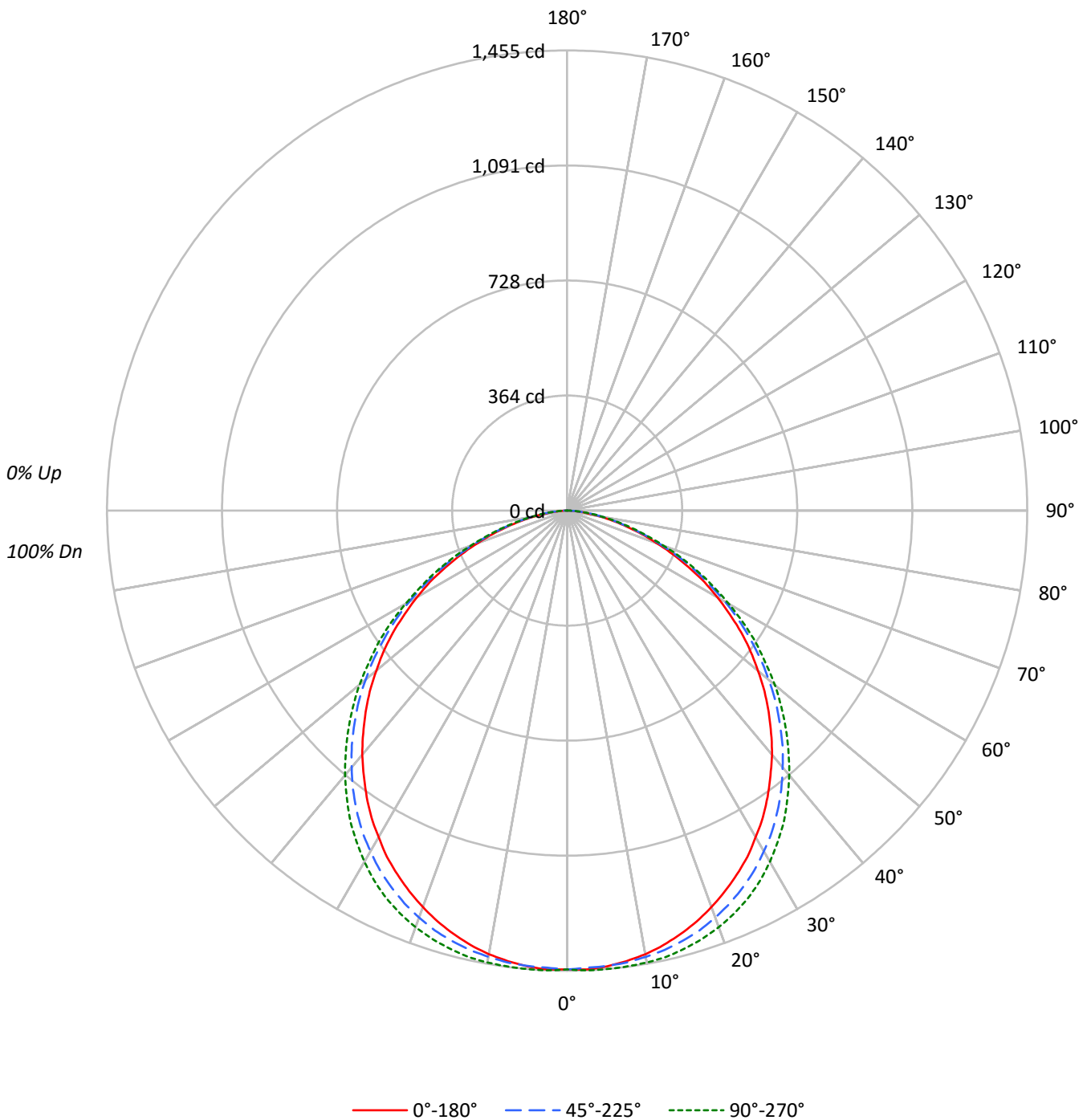
Input Watts (W): 32.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1952	1952	1952
5°	1954	1952	1965
10°	1946	1957	1982
15°	1931	1962	1998
20°	1911	1961	2007
25°	1885	1952	2008
30°	1852	1933	1992
35°	1815	1905	1965
40°	1771	1862	1919
45°	1715	1809	1862
50°	1648	1742	1795
55°	1577	1656	1708
60°	1475	1551	1589
65°	1347	1419	1455
70°	1184	1244	1278
75°	1001	1053	1089
80°	795	872	893
85°	542	651	630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.9	3.5
10°-20°	398.0	10.1
20°-30°	604.9	15.4
30°-40°	721.8	18.4
40°-50°	729.0	18.6
50°-60°	628.1	16.0
60°-70°	437.8	11.2
70°-80°	217.0	5.5
80°-90°	50.6	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°	1140.8	29.1
0°-40°	1862.6	47.5
0°-60°	3219.6	82.0
0°-90°	3925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3925.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1451	1451	1451	1451	1451	
5°	1447	1445	1445	1452	1455	137
15°	1386	1393	1409	1427	1434	391
25°	1270	1286	1315	1341	1353	585
35°	1105	1123	1160	1187	1196	691
45°	901	921	950	973	979	695
55°	672	686	706	723	728	599
65°	423	432	446	450	457	420
75°	193	195	202	207	210	208
85°	35	42	42	39	41	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1451.0	1451.0	1451.0	1451.0	1451.0
2.5°	1452.4	1449.6	1446.8	1452.4	1455.2
5°	1446.8	1445.4	1445.4	1452.4	1455.2
7.5°	1436.9	1436.9	1441.1	1451.0	1453.8
10°	1424.3	1427.1	1432.7	1446.8	1451.0
12.5°	1407.4	1413.0	1422.9	1439.7	1445.4
15°	1386.3	1393.3	1408.8	1427.1	1434.1
17.5°	1362.4	1372.3	1391.9	1413.0	1420.1
20°	1334.3	1346.9	1369.4	1393.3	1401.8
22.5°	1303.4	1318.8	1344.1	1369.4	1379.3
25°	1269.6	1286.5	1314.6	1341.3	1352.6
27.5°	1234.5	1251.3	1282.3	1309.0	1320.2
30°	1192.3	1212.0	1244.3	1272.4	1282.3
32.5°	1151.5	1171.2	1204.9	1230.2	1240.1
35°	1105.1	1123.4	1159.9	1186.7	1196.5
37.5°	1055.9	1077.0	1112.1	1136.0	1144.5
40°	1008.1	1026.4	1060.1	1084.0	1092.5
42.5°	954.7	974.4	1008.1	1029.2	1036.2
45°	901.2	920.9	950.5	973.0	978.6
47.5°	846.4	864.7	894.2	912.5	918.1
50°	787.4	804.2	832.4	850.6	857.7
52.5°	731.1	746.6	770.5	786.0	790.2
55°	672.1	686.1	705.8	722.7	728.3
57.5°	608.8	624.3	642.5	656.6	660.8
60°	548.3	561.0	576.5	589.1	590.5
62.5°	489.3	494.9	509.0	520.2	521.6
65°	423.2	431.6	445.7	449.9	456.9
67.5°	362.7	368.4	379.6	385.2	390.9
70°	300.9	305.1	316.3	323.4	324.8
72.5°	247.5	248.9	257.3	262.9	264.3
75°	192.6	195.4	202.5	206.7	209.5
77.5°	146.2	149.0	154.7	157.5	157.5
80°	102.6	106.9	112.5	113.9	115.3
82.5°	66.1	71.7	75.9	77.3	74.5
85°	35.1	42.2	42.2	39.4	40.8
87.5°	12.7	15.5	16.9	18.3	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)