

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: P297006

Luminaire Tested: **D3X-WG-45L83050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297006
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-45L83050-LD5-UNV-24-T1-W2A-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4490.0 lumens
Efficiency: N/A
Efficacy: 139.0 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

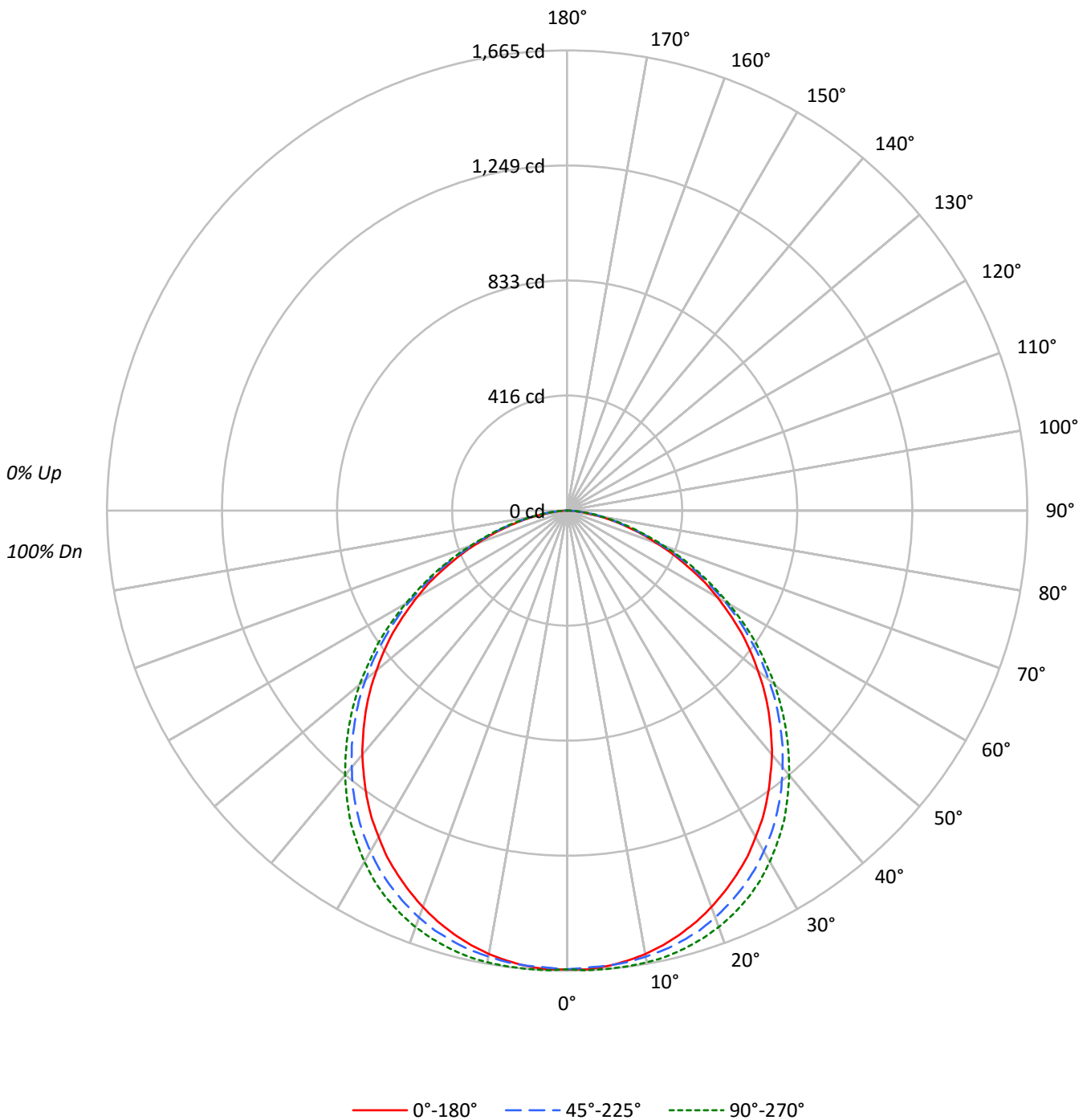
Input Watts (W): 32.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2233	2233	2233
5°	2235	2233	2248
10°	2226	2239	2268
15°	2209	2245	2285
20°	2186	2243	2296
25°	2156	2233	2297
30°	2119	2211	2279
35°	2076	2179	2248
40°	2025	2130	2195
45°	1962	2069	2130
50°	1885	1993	2054
55°	1803	1894	1954
60°	1688	1774	1818
65°	1541	1623	1664
70°	1354	1424	1461
75°	1145	1204	1246
80°	910	997	1022
85°	621	746	719



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.7	3.5
10°-20°	455.3	10.1
20°-30°	692.0	15.4
30°-40°	825.7	18.4
40°-50°	833.9	18.6
50°-60°	718.5	16.0
60°-70°	500.9	11.2
70°-80°	248.2	5.5
80°-90°	57.9	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°	1305.0	29.1
0°-40°	2130.7	47.5
0°-60°	3683.1	82.0
0°-90°	4490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4490.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1660	1660	1660	1660	1660	
5°	1655	1653	1653	1662	1665	157
15°	1586	1594	1612	1632	1641	447
25°	1452	1472	1504	1534	1547	669
35°	1264	1285	1327	1358	1369	790
45°	1031	1054	1087	1113	1119	795
55°	769	785	807	827	833	685
65°	484	494	510	515	523	481
75°	220	224	232	236	240	238
85°	40	48	48	45	47	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1659.9	1659.9	1659.9	1659.9	1659.9
2.5°	1661.5	1658.2	1655.0	1661.5	1664.7
5°	1655.0	1653.4	1653.4	1661.5	1664.7
7.5°	1643.8	1643.8	1648.6	1659.9	1663.1
10°	1629.3	1632.5	1638.9	1655.0	1659.9
12.5°	1610.0	1616.4	1627.7	1647.0	1653.4
15°	1585.9	1593.9	1611.6	1632.5	1640.6
17.5°	1558.5	1569.8	1592.3	1616.4	1624.5
20°	1526.4	1540.8	1566.6	1593.9	1603.6
22.5°	1491.0	1508.7	1537.6	1566.6	1577.8
25°	1452.4	1471.7	1503.8	1534.4	1547.3
27.5°	1412.2	1431.5	1466.9	1497.4	1510.3
30°	1363.9	1386.4	1423.4	1455.6	1466.9
32.5°	1317.3	1339.8	1378.4	1407.3	1418.6
35°	1264.2	1285.1	1326.9	1357.5	1368.7
37.5°	1207.9	1232.0	1272.2	1299.6	1309.2
40°	1153.2	1174.1	1212.7	1240.1	1249.7
42.5°	1092.1	1114.6	1153.2	1177.3	1185.4
45°	1031.0	1053.5	1087.3	1113.0	1119.4
47.5°	968.3	989.2	1022.9	1043.8	1050.3
50°	900.7	920.0	952.2	973.1	981.1
52.5°	836.4	854.1	881.4	899.1	903.9
55°	768.8	784.9	807.4	826.7	833.1
57.5°	696.4	714.1	735.0	751.1	755.9
60°	627.3	641.7	659.4	673.9	675.5
62.5°	559.7	566.2	582.2	595.1	596.7
65°	484.1	493.8	509.9	514.7	522.7
67.5°	415.0	421.4	434.3	440.7	447.1
70°	344.2	349.0	361.9	369.9	371.5
72.5°	283.1	284.7	294.3	300.8	302.4
75°	220.3	223.6	231.6	236.4	239.7
77.5°	167.3	170.5	176.9	180.1	180.1
80°	117.4	122.2	128.7	130.3	131.9
82.5°	75.6	82.0	86.9	88.5	85.2
85°	40.2	48.3	48.3	45.0	46.6
87.5°	14.5	17.7	19.3	20.9	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)