

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: P296996

Luminaire Tested: **D3X-WG-36L83050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296996
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-36L83050-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: 3627.0 lumens
Efficiency: N/A
Efficacy: 140.6 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

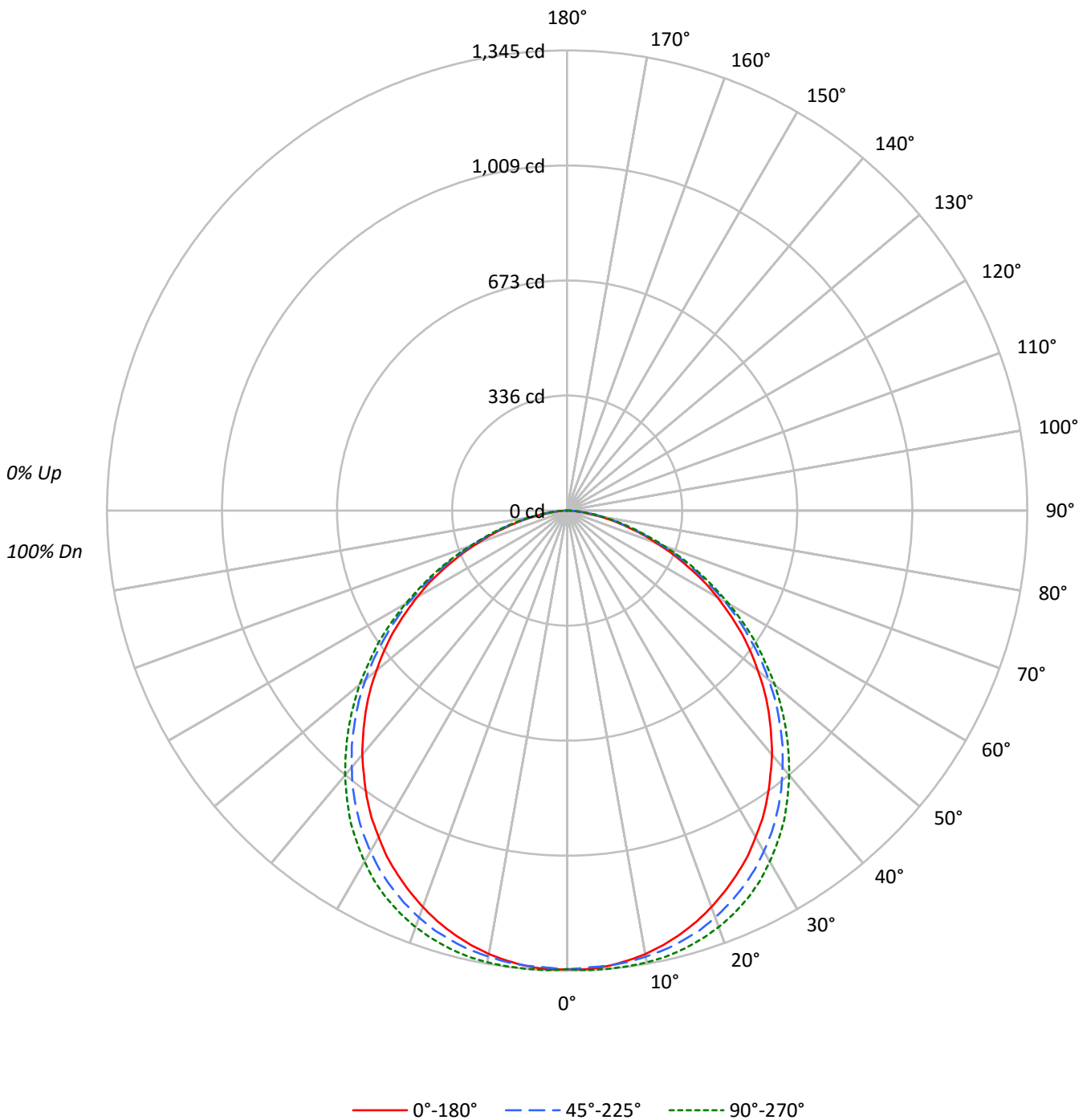
Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1804	1804	1804
5°	1806	1804	1816
10°	1798	1809	1832
15°	1785	1813	1846
20°	1765	1812	1855
25°	1742	1803	1856
30°	1712	1786	1841
35°	1677	1761	1816
40°	1636	1721	1773
45°	1585	1671	1721
50°	1523	1610	1659
55°	1457	1530	1579
60°	1364	1433	1468
65°	1245	1311	1344
70°	1094	1150	1181
75°	925	973	1006
80°	735	805	825
85°	502	602	582



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	3.5
10°-20°	367.8	10.1
20°-30°	559.0	15.4
30°-40°	667.0	18.4
40°-50°	673.6	18.6
50°-60°	580.4	16.0
60°-70°	404.6	11.2
70°-80°	200.5	5.5
80°-90°	46.8	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°	1054.2	29.1
0°-40°	1721.2	47.5
0°-60°	2975.2	82.0
0°-90°	3627.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3627.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1341	1341	1341	1341	1341	
5°	1337	1336	1336	1342	1345	127
15°	1281	1288	1302	1319	1325	361
25°	1173	1189	1215	1240	1250	540
35°	1021	1038	1072	1097	1106	638
45°	833	851	878	899	904	642
55°	621	634	652	668	673	554
65°	391	399	412	416	422	388
75°	178	181	187	191	194	192
85°	32	39	39	36	38	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1340.8	1340.8	1340.8	1340.8	1340.8
2.5°	1342.1	1339.5	1336.9	1342.1	1344.7
5°	1336.9	1335.6	1335.6	1342.1	1344.7
7.5°	1327.8	1327.8	1331.7	1340.8	1343.4
10°	1316.1	1318.7	1323.9	1336.9	1340.8
12.5°	1300.5	1305.7	1314.8	1330.4	1335.6
15°	1281.1	1287.6	1301.8	1318.7	1325.2
17.5°	1259.0	1268.1	1286.3	1305.7	1312.2
20°	1233.0	1244.7	1265.5	1287.6	1295.4
22.5°	1204.4	1218.7	1242.1	1265.5	1274.6
25°	1173.2	1188.8	1214.8	1239.5	1249.9
27.5°	1140.7	1156.3	1184.9	1209.6	1220.0
30°	1101.8	1120.0	1149.8	1175.8	1184.9
32.5°	1064.1	1082.3	1113.5	1136.8	1145.9
35°	1021.2	1038.1	1071.9	1096.6	1105.7
37.5°	975.7	995.2	1027.7	1049.8	1057.6
40°	931.6	948.5	979.6	1001.7	1009.5
42.5°	882.2	900.4	931.6	951.1	957.5
45°	832.8	851.0	878.3	899.1	904.3
47.5°	782.1	799.0	826.3	843.2	848.4
50°	727.6	743.2	769.2	786.0	792.5
52.5°	675.6	689.9	712.0	726.3	730.2
55°	621.0	634.0	652.2	667.8	673.0
57.5°	562.6	576.9	593.8	606.7	610.6
60°	506.7	518.4	532.7	544.4	545.7
62.5°	452.1	457.3	470.3	480.7	482.0
65°	391.1	398.9	411.9	415.8	422.3
67.5°	335.2	340.4	350.8	356.0	361.2
70°	278.0	281.9	292.3	298.8	300.1
72.5°	228.7	230.0	237.8	243.0	244.3
75°	178.0	180.6	187.1	191.0	193.6
77.5°	135.1	137.7	142.9	145.5	145.5
80°	94.8	98.7	103.9	105.2	106.5
82.5°	61.1	66.3	70.2	71.5	68.9
85°	32.5	39.0	39.0	36.4	37.7
87.5°	11.7	14.3	15.6	16.9	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)