

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: P297271

Luminaire Tested: **D3X-WO-31L83050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-31L83050-LD5-UNV-24-T1-W2A-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3255.0 lumens
Efficiency: N/A
Efficacy: 150.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

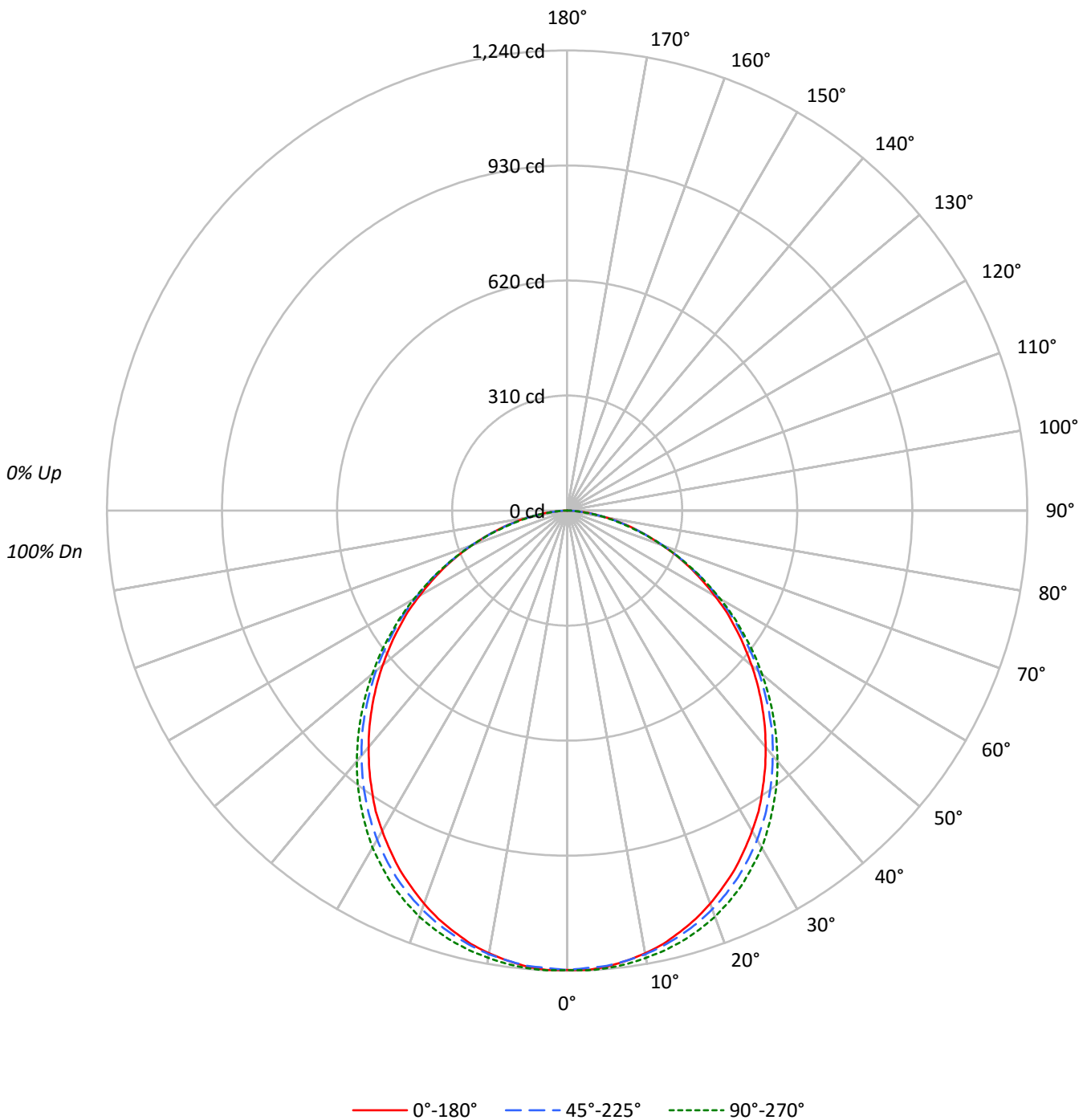
Input Watts (W): 21.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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°	1666	1666	1666
5°	1666	1663	1672
10°	1655	1658	1672
15°	1637	1650	1673
20°	1614	1637	1667
25°	1586	1618	1654
30°	1549	1591	1630
35°	1508	1556	1592
40°	1462	1514	1548
45°	1412	1465	1496
50°	1359	1409	1434
55°	1301	1343	1363
60°	1236	1269	1284
65°	1166	1183	1190
70°	1070	1083	1070
75°	963	958	929
80°	816	807	782
85°	610	593	525



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.2	3.6
10°-20°	334.8	10.3
20°-30°	502.0	15.4
30°-40°	591.2	18.2
40°-50°	591.3	18.2
50°-60°	510.2	15.7
60°-70°	367.1	11.3
70°-80°	194.7	6.0
80°-90°	46.5	1.4
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°	954.0	29.3
0°-40°	1545.2	47.5
0°-60°	2646.7	81.3
0°-90°	3255.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3255.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1238	1238	1238	1238	1238	
5°	1234	1232	1231	1236	1238	117
15°	1175	1179	1184	1196	1201	331
25°	1068	1075	1090	1109	1114	491
35°	918	929	947	964	969	574
45°	742	752	770	783	786	573
55°	555	560	572	582	581	497
65°	366	367	372	374	374	362
75°	185	183	184	180	179	197
85°	40	40	38	35	34	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1237.9	1237.9	1237.9	1237.9	1237.9
2.5°	1239.0	1236.8	1233.6	1237.9	1240.1
5°	1233.6	1232.5	1231.4	1235.7	1237.9
7.5°	1223.7	1224.8	1223.7	1230.3	1232.5
10°	1211.6	1212.7	1213.8	1221.5	1223.7
12.5°	1196.3	1197.4	1200.7	1210.5	1213.8
15°	1175.4	1178.7	1184.2	1196.3	1200.7
17.5°	1153.5	1157.9	1165.6	1179.8	1184.2
20°	1127.2	1132.7	1143.6	1159.0	1164.5
22.5°	1097.6	1103.1	1118.4	1134.9	1140.3
25°	1068.0	1074.6	1089.9	1108.6	1114.0
27.5°	1032.9	1041.7	1058.1	1076.8	1081.1
30°	996.7	1004.4	1024.1	1041.7	1049.3
32.5°	960.5	968.2	986.8	1004.4	1009.9
35°	917.8	928.7	947.4	963.8	969.3
37.5°	876.1	886.0	905.7	922.1	927.6
40°	832.2	841.0	861.8	877.2	881.6
42.5°	788.4	797.1	818.0	830.0	834.4
45°	742.3	752.2	769.7	782.9	786.2
47.5°	696.3	703.9	720.4	732.5	736.8
50°	649.1	656.8	673.2	683.1	685.3
52.5°	602.0	607.5	622.8	631.6	634.9
55°	554.8	560.3	572.4	582.2	581.1
57.5°	509.9	512.1	524.1	530.7	530.7
60°	459.4	461.6	471.5	475.9	477.0
62.5°	412.3	415.6	423.2	424.3	424.3
65°	366.2	367.3	371.7	373.9	373.9
67.5°	320.2	319.1	323.5	323.5	322.4
70°	271.9	274.1	275.2	273.0	271.9
72.5°	228.1	227.0	227.0	225.9	225.9
75°	185.3	183.1	184.2	179.8	178.7
77.5°	145.8	142.5	141.4	139.3	137.1
80°	105.3	105.3	104.2	102.0	100.9
82.5°	70.2	70.2	69.1	66.9	64.7
85°	39.5	39.5	38.4	35.1	34.0
87.5°	13.2	13.2	13.2	13.2	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)