

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: P297324

Luminaire Tested: **D3X-WO-31L82765-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297324
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-31L82765-LD5-UNV-24-T1-W2A-5000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3192.0 lumens
Efficiency: N/A
Efficacy: 147.1 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

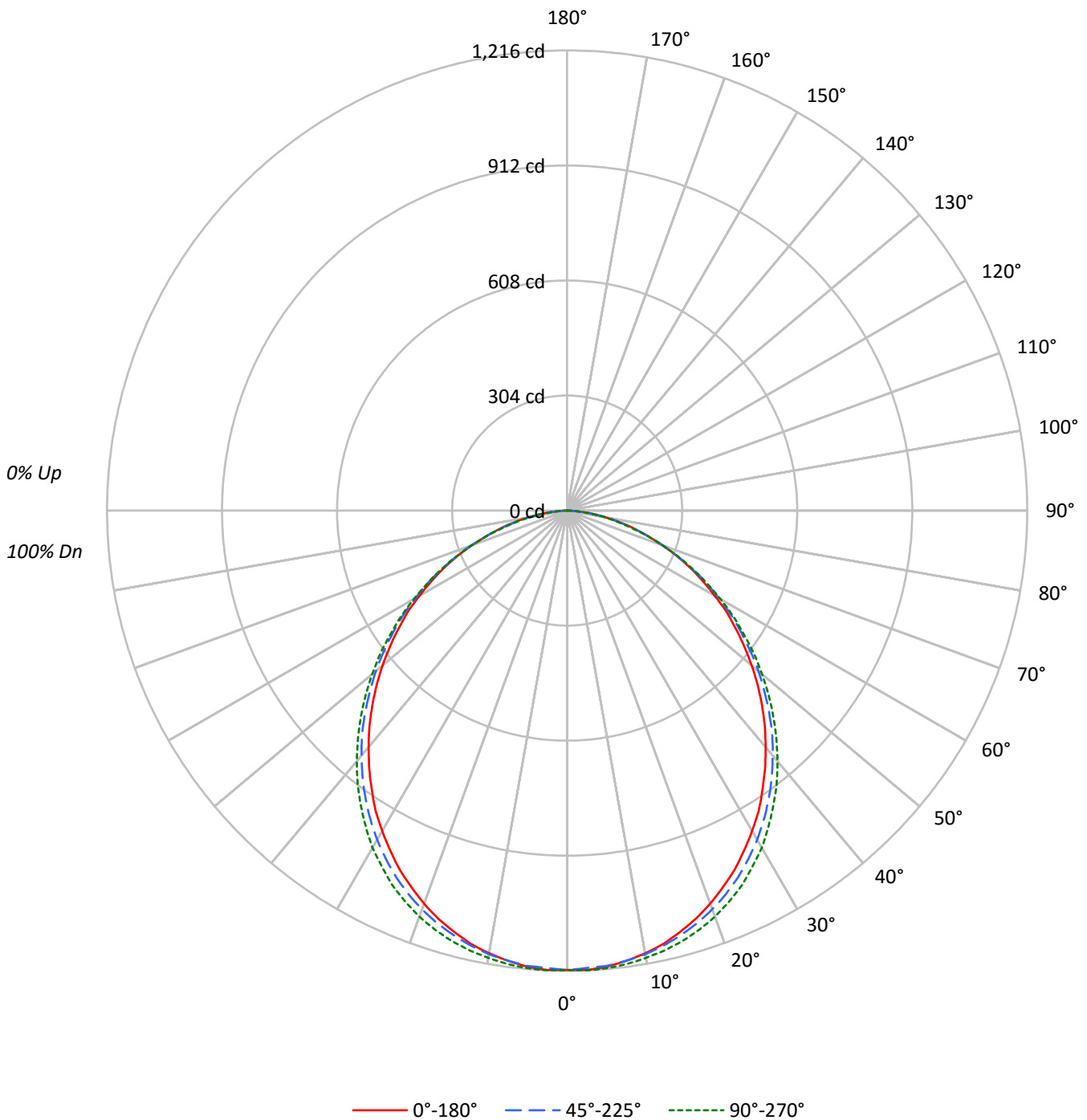
Input Watts (W): 21.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1633	1633	1633
5°	1634	1631	1640
10°	1623	1626	1639
15°	1606	1618	1640
20°	1583	1606	1635
25°	1555	1587	1622
30°	1519	1560	1599
35°	1478	1526	1561
40°	1433	1485	1518
45°	1385	1436	1467
50°	1333	1382	1407
55°	1276	1317	1337
60°	1212	1244	1259
65°	1143	1160	1167
70°	1049	1062	1049
75°	945	939	911
80°	800	792	766
85°	597	580	514



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	3.6
10°-20°	328.3	10.3
20°-30°	492.3	15.4
30°-40°	579.8	18.2
40°-50°	579.8	18.2
50°-60°	500.3	15.7
60°-70°	360.0	11.3
70°-80°	191.0	6.0
80°-90°	45.5	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°	935.6	29.3
0°-40°	1515.3	47.5
0°-60°	2595.5	81.3
0°-90°	3192.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3192.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1214	1214	1214	1214	1214	
5°	1210	1209	1208	1212	1214	115
15°	1153	1156	1161	1173	1177	325
25°	1047	1054	1069	1087	1092	482
35°	900	911	929	945	950	563
45°	728	738	755	768	771	562
55°	544	550	561	571	570	487
65°	359	360	364	367	367	355
75°	182	180	181	176	175	193
85°	39	39	38	34	33	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1214.0	1214.0	1214.0	1214.0	1214.0
2.5°	1215.1	1212.9	1209.7	1214.0	1216.1
5°	1209.7	1208.6	1207.5	1211.8	1214.0
7.5°	1200.0	1201.1	1200.0	1206.4	1208.6
10°	1188.2	1189.2	1190.3	1197.8	1200.0
12.5°	1173.1	1174.2	1177.4	1187.1	1190.3
15°	1152.7	1155.9	1161.3	1173.1	1177.4
17.5°	1131.2	1135.5	1143.0	1157.0	1161.3
20°	1105.4	1110.8	1121.5	1136.6	1141.9
22.5°	1076.3	1081.7	1096.8	1112.9	1118.3
25°	1047.3	1053.8	1068.8	1087.1	1092.5
27.5°	1012.9	1021.5	1037.6	1055.9	1060.2
30°	977.4	984.9	1004.3	1021.5	1029.0
32.5°	941.9	949.5	967.7	984.9	990.3
35°	900.0	910.8	929.0	945.2	950.5
37.5°	859.1	868.8	888.2	904.3	909.7
40°	816.1	824.7	845.2	860.2	864.5
42.5°	773.1	781.7	802.1	814.0	818.3
45°	728.0	737.6	754.8	767.7	771.0
47.5°	682.8	690.3	706.5	718.3	722.6
50°	636.6	644.1	660.2	669.9	672.0
52.5°	590.3	595.7	610.8	619.4	622.6
55°	544.1	549.5	561.3	571.0	569.9
57.5°	500.0	502.1	514.0	520.4	520.4
60°	450.5	452.7	462.4	466.7	467.7
62.5°	404.3	407.5	415.1	416.1	416.1
65°	359.1	360.2	364.5	366.7	366.7
67.5°	314.0	312.9	317.2	317.2	316.1
70°	266.7	268.8	269.9	267.7	266.7
72.5°	223.7	222.6	222.6	221.5	221.5
75°	181.7	179.6	180.6	176.3	175.3
77.5°	143.0	139.8	138.7	136.6	134.4
80°	103.2	103.2	102.2	100.0	98.9
82.5°	68.8	68.8	67.7	65.6	63.4
85°	38.7	38.7	37.6	34.4	33.3
87.5°	12.9	12.9	12.9	12.9	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)