

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: P298196

Luminaire Tested: **D3X-WG-35L82765-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-35L82765-LD5-UNV-22-T1-W2A-3500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3244.0 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

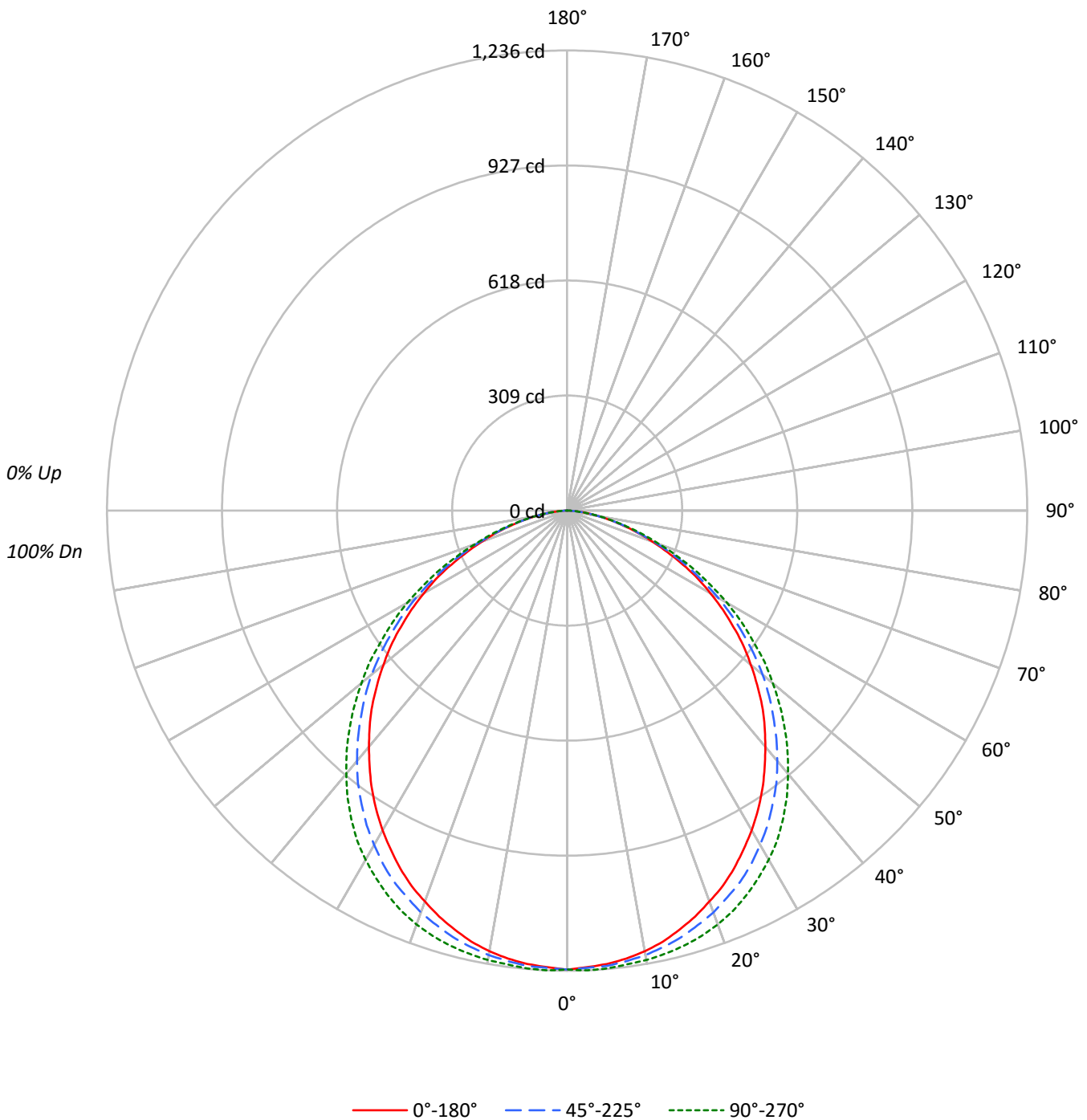
Input Watts (W): 28
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3317	3317	3317
5°	3302	3316	3335
10°	3284	3312	3350
15°	3247	3305	3372
20°	3200	3289	3387
25°	3149	3267	3384
30°	3081	3221	3365
35°	3004	3162	3320
40°	2909	3085	3242
45°	2818	2981	3145
50°	2696	2869	3020
55°	2561	2706	2852
60°	2391	2520	2669
65°	2181	2280	2412
70°	1910	1991	2072
75°	1629	1665	1736
80°	1308	1334	1361
85°	957	905	849



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.7	3.6
10°-20°	334.9	10.3
20°-30°	506.3	15.6
30°-40°	601.4	18.5
40°-50°	603.7	18.6
50°-60°	515.7	15.9
60°-70°	355.3	11.0
70°-80°	172.3	5.3
80°-90°	37.7	1.2
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°	957.9	29.5
0°-40°	1559.3	48.1
0°-60°	2678.7	82.6
0°-90°	3244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3244.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1233	1233	1233	1233	1233	
5°	1222	1222	1228	1231	1234	116
15°	1166	1171	1186	1202	1210	329
25°	1061	1069	1100	1130	1140	488
35°	914	928	962	999	1011	571
45°	740	751	783	816	826	570
55°	546	554	577	601	608	488
65°	343	343	358	374	379	339
75°	157	153	160	164	167	168
85°	31	31	29	28	28	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1232.8	1232.8	1232.8	1232.8	1232.8
2.5°	1227.6	1227.6	1229.4	1234.5	1236.2
5°	1222.5	1222.5	1227.6	1231.1	1234.5
7.5°	1213.9	1215.6	1220.7	1227.6	1229.4
10°	1201.8	1203.5	1212.1	1220.7	1225.9
12.5°	1186.3	1189.7	1200.1	1213.9	1219.0
15°	1165.6	1170.8	1186.3	1201.8	1210.4
17.5°	1143.3	1150.1	1167.4	1189.7	1198.4
20°	1117.4	1126.0	1148.4	1172.5	1182.9
22.5°	1091.6	1098.5	1124.3	1151.9	1163.9
25°	1060.6	1069.2	1100.2	1129.5	1139.8
27.5°	1026.2	1038.2	1070.9	1101.9	1112.3
30°	991.7	1002.1	1036.5	1070.9	1083.0
32.5°	953.9	964.2	1002.1	1036.5	1050.3
35°	914.3	928.0	962.5	998.6	1010.7
37.5°	871.2	886.7	922.9	953.9	969.4
40°	828.2	842.0	878.1	910.8	922.9
42.5°	785.1	797.2	831.6	866.1	876.4
45°	740.4	750.7	783.4	816.1	826.5
47.5°	692.2	704.2	735.2	762.7	774.8
50°	643.9	656.0	685.3	711.1	721.4
52.5°	597.5	604.3	631.9	656.0	668.1
55°	545.8	554.4	576.8	600.9	607.8
57.5°	495.9	501.0	523.4	544.1	554.4
60°	444.2	447.7	468.3	483.8	495.9
62.5°	396.0	396.0	411.5	428.7	435.6
65°	342.6	342.6	358.1	373.6	378.8
67.5°	291.0	294.4	304.8	316.8	320.3
70°	242.8	242.8	253.1	261.7	263.4
72.5°	199.7	198.0	203.2	210.1	213.5
75°	156.7	153.2	160.1	163.6	167.0
77.5°	118.8	117.1	120.5	124.0	124.0
80°	84.4	82.6	86.1	86.1	87.8
82.5°	55.1	56.8	56.8	55.1	53.4
85°	31.0	31.0	29.3	27.5	27.5
87.5°	10.3	10.3	10.3	12.1	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)