

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: P298195

Luminaire Tested: **D3X-WG-35L82765-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298195
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-3000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3136.0 lumens
Efficiency: N/A
Efficacy: 113.2 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

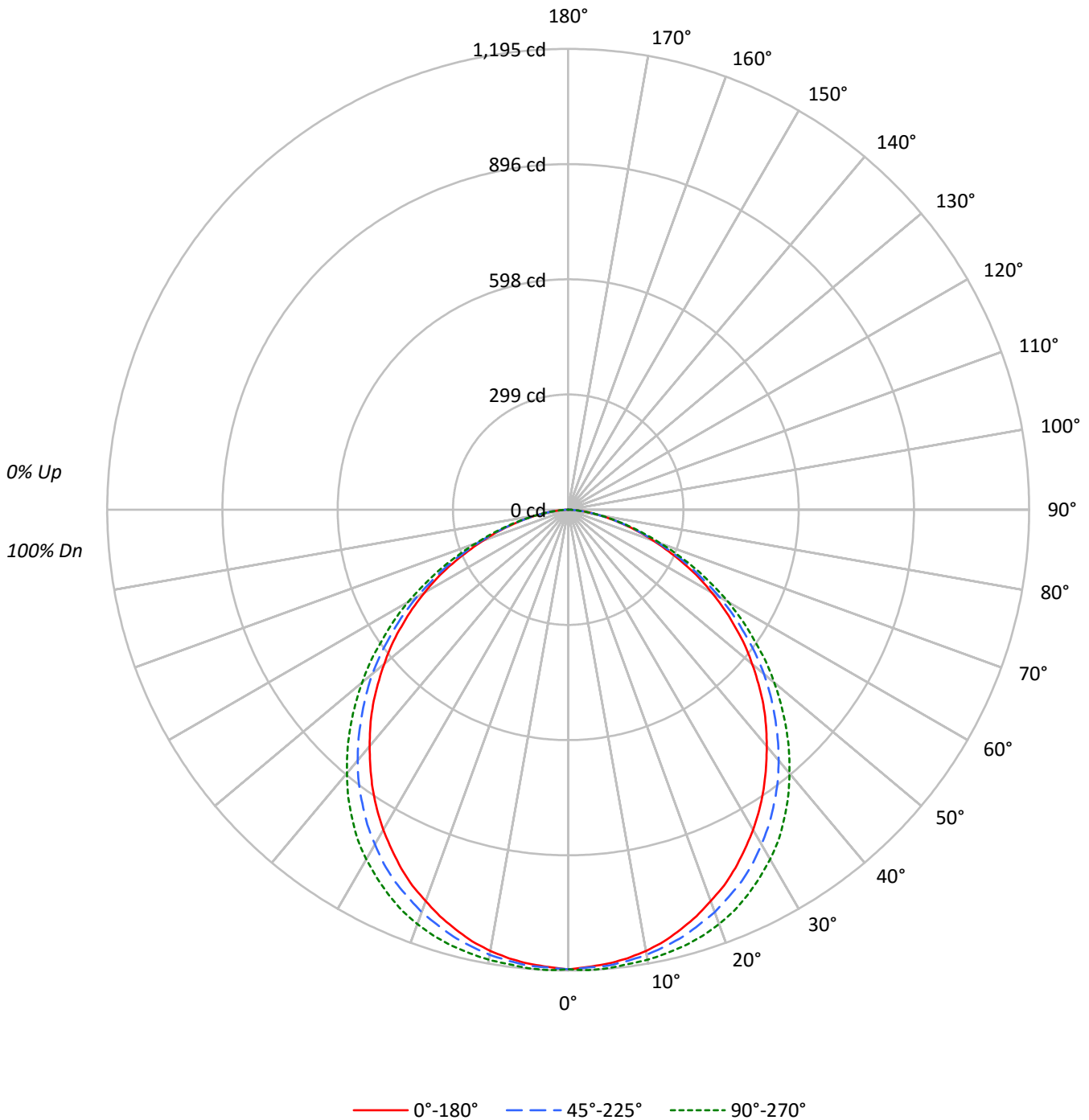
Input Watts (W): 27.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3207	3207	3207
5°	3192	3206	3224
10°	3175	3202	3238
15°	3139	3195	3260
20°	3093	3179	3275
25°	3044	3158	3272
30°	2979	3113	3253
35°	2903	3056	3210
40°	2812	2982	3134
45°	2724	2882	3040
50°	2606	2774	2920
55°	2475	2616	2757
60°	2311	2436	2580
65°	2109	2204	2332
70°	1847	1925	2004
75°	1575	1609	1679
80°	1265	1289	1316
85°	926	874	821



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.8	3.6
10°-20°	323.8	10.3
20°-30°	489.5	15.6
30°-40°	581.4	18.5
40°-50°	583.6	18.6
50°-60°	498.5	15.9
60°-70°	343.5	11.0
70°-80°	166.5	5.3
80°-90°	36.4	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°	926.0	29.5
0°-40°	1507.4	48.1
0°-60°	2589.6	82.6
0°-90°	3136.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3136.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1192	1192	1192	1192	1192	
5°	1182	1182	1187	1190	1193	112
15°	1127	1132	1147	1162	1170	318
25°	1025	1034	1064	1092	1102	472
35°	884	897	930	965	977	552
45°	716	726	757	789	799	551
55°	528	536	558	581	588	472
65°	331	331	346	361	366	328
75°	152	148	155	158	162	163
85°	30	30	28	27	27	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1191.8	1191.8	1191.8	1191.8	<i>1191.8</i>
2.5°	<i>1186.8</i>	<i>1186.8</i>	<i>1188.4</i>	<i>1193.4</i>	<i>1195.1</i>
5°	1181.8	1181.8	1186.8	1190.1	<i>1193.4</i>
7.5°	1173.4	1175.1	1180.1	1186.8	<i>1188.4</i>
10°	1161.8	1163.5	1171.8	1180.1	<i>1185.1</i>
12.5°	1146.8	1150.1	1160.1	1173.4	<i>1178.4</i>
15°	1126.8	1131.8	1146.8	1161.8	<i>1170.1</i>
17.5°	1105.2	1111.9	1128.5	1150.1	<i>1158.5</i>
20°	1080.2	1088.6	1110.2	1133.5	<i>1143.5</i>
22.5°	1055.3	1061.9	1086.9	1113.5	<i>1125.2</i>
25°	1025.3	1033.6	1063.6	1091.9	<i>1101.9</i>
27.5°	992.0	1003.7	1035.3	1065.3	<i>1075.2</i>
30°	958.7	968.7	1002.0	1035.3	<i>1046.9</i>
32.5°	922.1	932.1	968.7	1002.0	<i>1015.3</i>
35°	883.8	897.1	930.4	965.4	<i>977.0</i>
37.5°	842.2	857.2	892.1	922.1	<i>937.1</i>
40°	800.6	813.9	848.9	880.5	<i>892.1</i>
42.5°	759.0	770.6	803.9	837.2	<i>847.2</i>
45°	715.7	725.7	757.3	789.0	<i>798.9</i>
47.5°	669.1	680.8	710.7	737.4	<i>749.0</i>
50°	622.5	634.2	662.5	687.4	<i>697.4</i>
52.5°	577.6	584.2	610.9	634.2	<i>645.8</i>
55°	527.6	536.0	557.6	580.9	<i>587.6</i>
57.5°	479.4	484.4	506.0	526.0	<i>536.0</i>
60°	429.4	432.8	452.7	467.7	<i>479.4</i>
62.5°	382.8	382.8	397.8	414.5	<i>421.1</i>
65°	331.2	331.2	346.2	361.2	<i>366.2</i>
67.5°	281.3	284.6	294.6	306.3	<i>309.6</i>
70°	234.7	234.7	244.7	253.0	<i>254.7</i>
72.5°	193.1	191.4	196.4	203.1	<i>206.4</i>
75°	151.5	148.1	154.8	158.1	<i>161.5</i>
77.5°	114.8	113.2	116.5	119.8	<i>119.8</i>
80°	81.6	79.9	83.2	83.2	<i>84.9</i>
82.5°	53.3	54.9	54.9	53.3	<i>51.6</i>
85°	30.0	30.0	28.3	26.6	<i>26.6</i>
87.5°	10.0	10.0	10.0	11.7	<i>11.7</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)