

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: P298200

Luminaire Tested: **D3X-WG-35L82765-LD5-UNV-22-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298200
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-5500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3454.0 lumens
Efficiency: N/A
Efficacy: 120.8 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

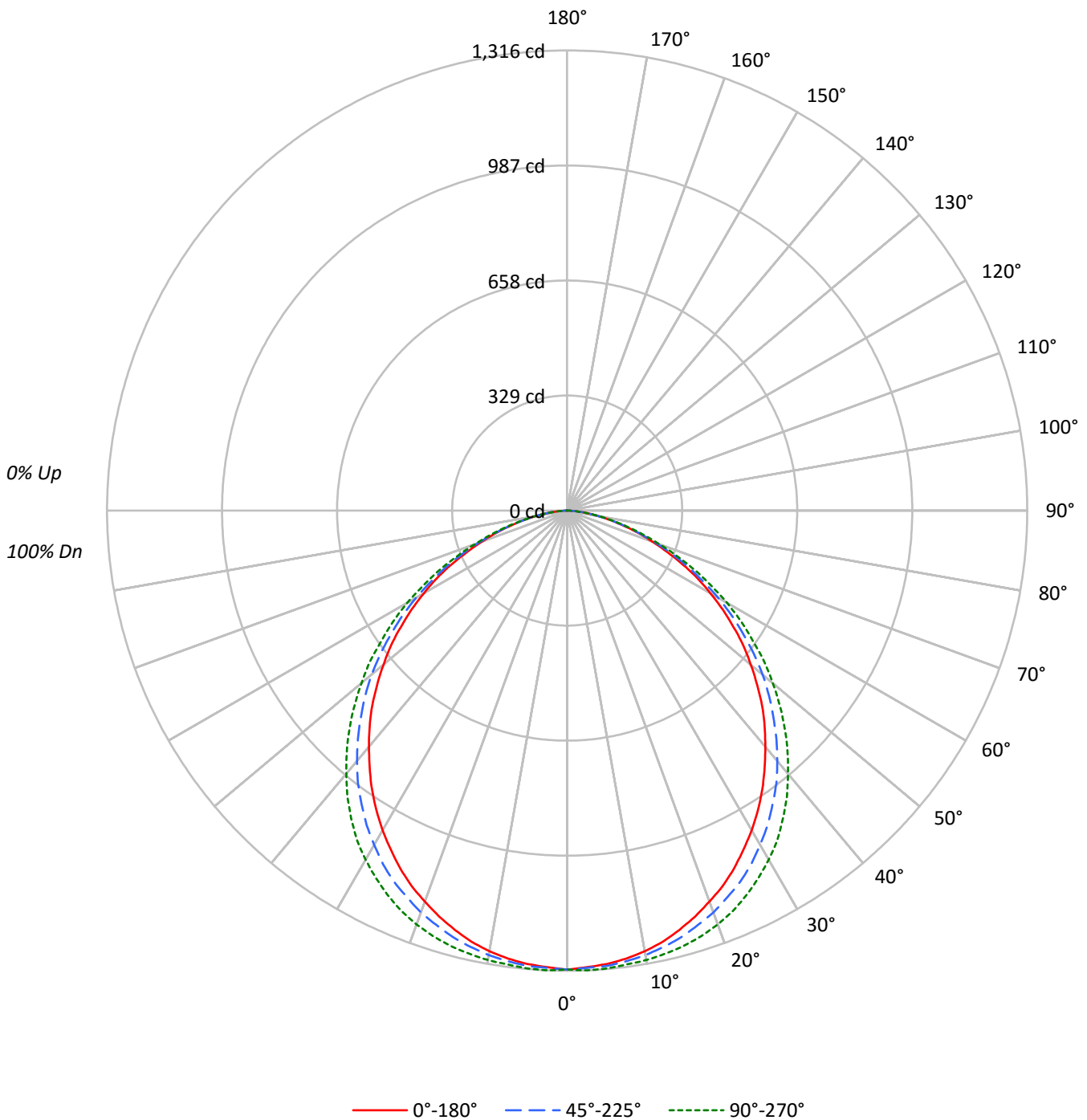
Input Watts (W): 28.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3532	3532	3532
5°	3516	3531	3551
10°	3496	3527	3567
15°	3458	3519	3590
20°	3407	3502	3607
25°	3353	3478	3603
30°	3281	3429	3583
35°	3198	3367	3535
40°	3098	3284	3452
45°	3000	3174	3349
50°	2870	3054	3216
55°	2726	2881	3036
60°	2546	2683	2842
65°	2323	2428	2568
70°	2034	2120	2207
75°	1734	1773	1849
80°	1392	1421	1449
85°	1019	963	905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.3	3.6
10°-20°	356.6	10.3
20°-30°	539.1	15.6
30°-40°	640.3	18.5
40°-50°	642.8	18.6
50°-60°	549.1	15.9
60°-70°	378.3	11.0
70°-80°	183.4	5.3
80°-90°	40.1	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°	1019.9	29.5
0°-40°	1660.2	48.1
0°-60°	2852.1	82.6
0°-90°	3454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3454.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1313	1313	1313	1313	1313	
5°	1302	1302	1307	1311	1314	124
15°	1241	1247	1263	1280	1289	350
25°	1129	1138	1171	1203	1214	520
35°	973	988	1025	1063	1076	608
45°	788	799	834	869	880	607
55°	581	590	614	640	647	520
65°	365	365	381	398	403	361
75°	167	163	170	174	178	179
85°	33	33	31	29	29	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1312.6	1312.6	1312.6	1312.6	1312.6
2.5°	1307.1	1307.1	1308.9	1314.4	1316.3
5°	1301.6	1301.6	1307.1	1310.8	1314.4
7.5°	1292.4	1294.3	1299.8	1307.1	1308.9
10°	1279.6	1281.4	1290.6	1299.8	1305.3
12.5°	1263.1	1266.8	1277.8	1292.4	1297.9
15°	1241.1	1246.6	1263.1	1279.6	1288.8
17.5°	1217.3	1224.6	1242.9	1266.8	1275.9
20°	1189.8	1198.9	1222.8	1248.4	1259.4
22.5°	1162.3	1169.6	1197.1	1226.4	1239.3
25°	1129.3	1138.4	1171.4	1202.6	1213.6
27.5°	1092.6	1105.4	1140.3	1173.3	1184.3
30°	1055.9	1066.9	1103.6	1140.3	1153.1
32.5°	1015.6	1026.6	1066.9	1103.6	1118.3
35°	973.4	988.1	1024.8	1063.3	1076.1
37.5°	927.6	944.1	982.6	1015.6	1032.1
40°	881.8	896.5	935.0	969.8	982.6
42.5°	836.0	848.8	885.5	922.1	933.1
45°	788.3	799.3	834.1	869.0	880.0
47.5°	737.0	749.8	782.8	812.1	825.0
50°	685.6	698.5	729.6	757.1	768.1
52.5°	636.1	643.5	672.8	698.5	711.3
55°	581.1	590.3	614.1	639.8	647.1
57.5°	528.0	533.5	557.3	579.3	590.3
60°	473.0	476.6	498.6	515.1	528.0
62.5°	421.6	421.6	438.1	456.5	463.8
65°	364.8	364.8	381.3	397.8	403.3
67.5°	309.8	313.5	324.5	337.3	341.0
70°	258.5	258.5	269.5	278.7	280.5
72.5°	212.7	210.8	216.3	223.7	227.3
75°	166.8	163.2	170.5	174.2	177.8
77.5°	126.5	124.7	128.3	132.0	132.0
80°	89.8	88.0	91.7	91.7	93.5
82.5°	58.7	60.5	60.5	58.7	56.8
85°	33.0	33.0	31.2	29.3	29.3
87.5°	11.0	11.0	11.0	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)