

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: P298154

Luminaire Tested: **D3X-WG-35L83050-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298154
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-35L83050-LD5-UNV-22-T1-W2A-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3487.0 lumens
Efficiency: N/A
Efficacy: 121.9 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

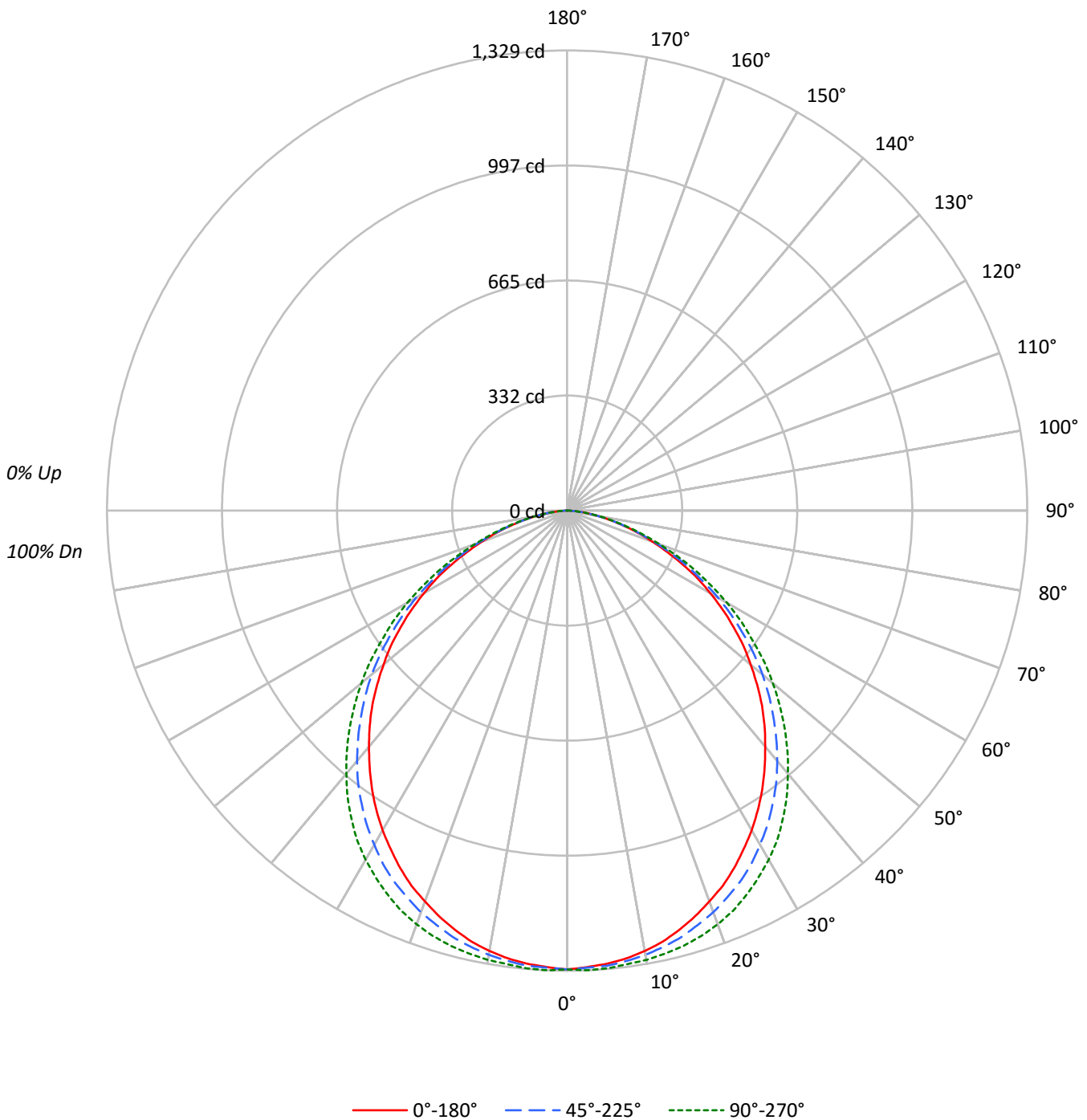
Input Watts (W): 28.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45					45			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32					32			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28					28			
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3566	3566	3566
5°	3549	3565	3585
10°	3530	3560	3601
15°	3491	3553	3625
20°	3440	3535	3641
25°	3385	3511	3638
30°	3312	3462	3617
35°	3229	3399	3569
40°	3127	3316	3485
45°	3029	3205	3381
50°	2898	3084	3247
55°	2753	2909	3065
60°	2570	2709	2869
65°	2345	2451	2593
70°	2054	2141	2228
75°	1751	1789	1866
80°	1406	1433	1463
85°	1028	973	914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.4	3.6
10°-20°	360.0	10.3
20°-30°	544.2	15.6
30°-40°	646.4	18.5
40°-50°	649.0	18.6
50°-60°	554.3	15.9
60°-70°	381.9	11.0
70°-80°	185.2	5.3
80°-90°	40.5	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°	1029.7	29.5
0°-40°	1676.1	48.1
0°-60°	2879.4	82.6
0°-90°	3487.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3487.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1325	1325	1325	1325	1325	
5°	1314	1314	1320	1323	1327	125
15°	1253	1258	1275	1292	1301	353
25°	1140	1149	1183	1214	1225	525
35°	983	998	1035	1073	1086	614
45°	796	807	842	877	888	613
55°	587	596	620	646	653	525
65°	368	368	385	402	407	365
75°	168	165	172	176	180	181
85°	33	33	32	30	30	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1325.1	1325.1	1325.1	1325.1	1325.1
2.5°	1319.6	1319.6	1321.4	1327.0	1328.8
5°	1314.0	1314.0	1319.6	1323.3	1327.0
7.5°	1304.8	1306.6	1312.2	1319.6	1321.4
10°	1291.8	1293.7	1302.9	1312.2	1317.7
12.5°	1275.2	1278.9	1290.0	1304.8	1310.3
15°	1253.0	1258.5	1275.2	1291.8	1301.1
17.5°	1228.9	1236.3	1254.8	1278.9	1288.1
20°	1201.1	1210.4	1234.5	1260.4	1271.5
22.5°	1173.4	1180.8	1208.5	1238.2	1251.1
25°	1140.1	1149.3	1182.6	1214.1	1225.2
27.5°	1103.0	1116.0	1151.2	1184.5	1195.6
30°	1066.0	1077.1	1114.2	1151.2	1164.1
32.5°	1025.3	1036.4	1077.1	1114.2	1129.0
35°	982.8	997.6	1034.6	1073.4	1086.4
37.5°	936.5	953.1	992.0	1025.3	1042.0
40°	890.2	905.0	943.9	979.0	992.0
42.5°	843.9	856.9	893.9	930.9	942.0
45°	795.8	806.9	842.1	877.3	888.4
47.5°	744.0	757.0	790.3	819.9	832.8
50°	692.2	705.1	736.6	764.4	775.5
52.5°	642.2	649.6	679.2	705.1	718.1
55°	586.7	595.9	620.0	645.9	653.3
57.5°	533.0	538.6	562.6	584.8	595.9
60°	477.5	481.2	503.4	520.1	533.0
62.5°	425.7	425.7	442.3	460.8	468.2
65°	368.3	368.3	385.0	401.6	407.2
67.5°	312.8	316.5	327.6	340.5	344.2
70°	261.0	261.0	272.1	281.3	283.2
72.5°	214.7	212.8	218.4	225.8	229.5
75°	168.4	164.7	172.1	175.8	179.5
77.5°	127.7	125.9	129.6	133.3	133.3
80°	90.7	88.8	92.5	92.5	94.4
82.5°	59.2	61.1	61.1	59.2	57.4
85°	33.3	33.3	31.5	29.6	29.6
87.5°	11.1	11.1	11.1	13.0	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)