

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: P298158

Luminaire Tested: **D3X-WG-40L83050-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298158
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-40L83050-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: 3757.0 lumens
Efficiency: N/A
Efficacy: 117.0 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

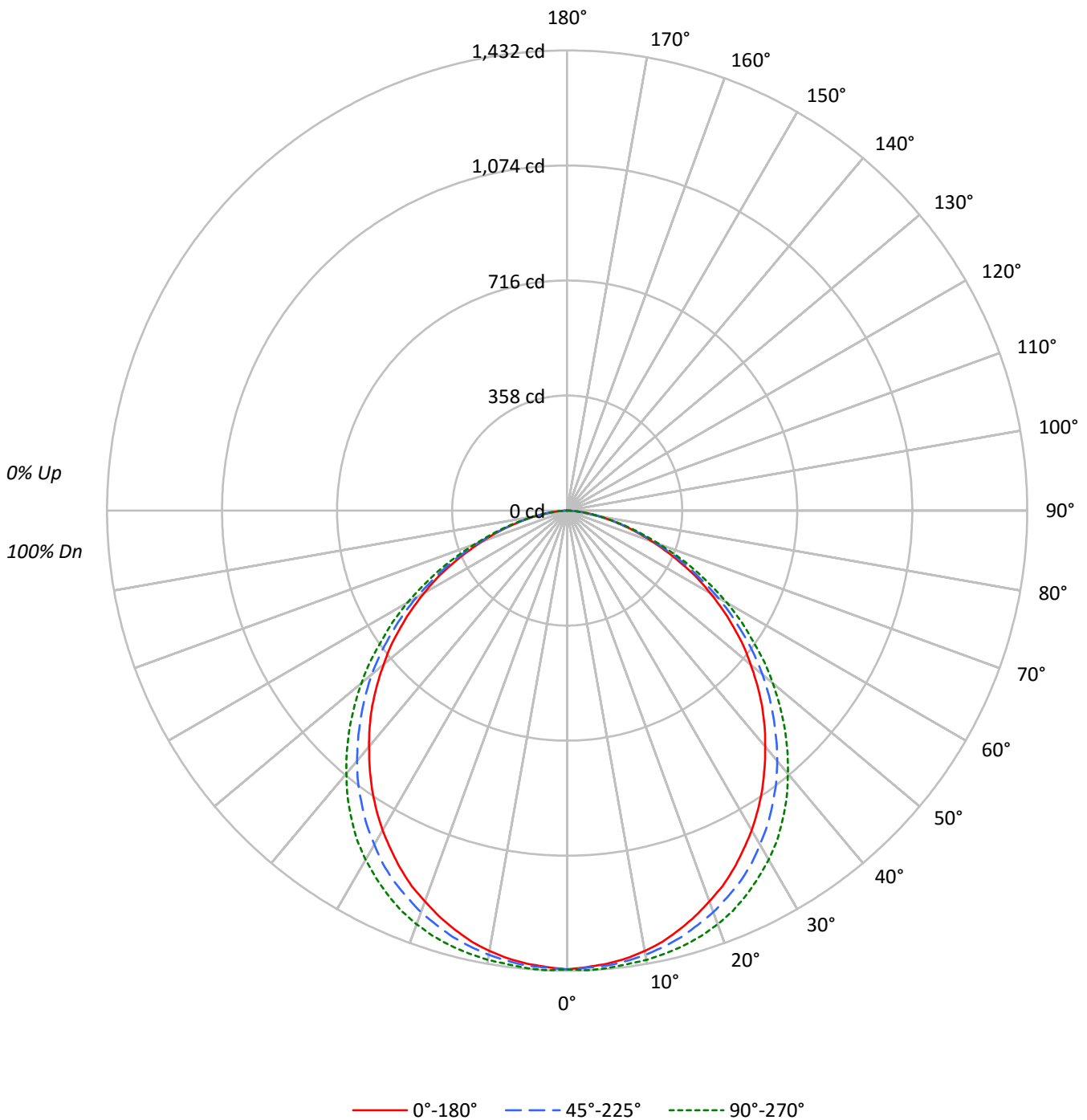
Input Watts (W): 32.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3842	3842	3842
5°	3824	3841	3862
10°	3803	3836	3880
15°	3761	3828	3905
20°	3706	3809	3923
25°	3647	3783	3920
30°	3569	3730	3897
35°	3478	3662	3845
40°	3369	3573	3755
45°	3263	3453	3642
50°	3122	3322	3498
55°	2966	3134	3302
60°	2769	2919	3091
65°	2527	2641	2793
70°	2212	2306	2400
75°	1887	1928	2011
80°	1514	1545	1576
85°	1108	1047	985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.2	3.6
10°-20°	387.9	10.3
20°-30°	586.4	15.6
30°-40°	696.5	18.5
40°-50°	699.2	18.6
50°-60°	597.2	15.9
60°-70°	411.5	11.0
70°-80°	199.5	5.3
80°-90°	43.7	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°	1109.4	29.5
0°-40°	1805.9	48.1
0°-60°	3102.3	82.6
0°-90°	3757.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3757.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1428	1428	1428	1428	1428	
5°	1416	1416	1422	1426	1430	134
15°	1350	1356	1374	1392	1402	381
25°	1228	1238	1274	1308	1320	565
35°	1059	1075	1115	1157	1170	661
45°	857	869	907	945	957	660
55°	632	642	668	696	704	565
65°	397	397	415	433	439	393
75°	182	178	185	189	193	195
85°	36	36	34	32	32	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1427.7	1427.7	1427.7	1427.7	1427.7
2.5°	1421.8	1421.8	1423.8	1429.7	1431.7
5°	1415.8	1415.8	1421.8	1425.8	1429.7
7.5°	1405.8	1407.8	1413.8	1421.8	1423.8
10°	1391.9	1393.8	1403.8	1413.8	1419.8
12.5°	1373.9	1377.9	1389.9	1405.8	1411.8
15°	1350.0	1356.0	1373.9	1391.9	1401.8
17.5°	1324.1	1332.0	1352.0	1377.9	1387.9
20°	1294.1	1304.1	1330.0	1358.0	1369.9
22.5°	1264.2	1272.2	1302.1	1334.0	1348.0
25°	1228.3	1238.3	1274.2	1308.1	1320.1
27.5°	1188.5	1202.4	1240.3	1276.2	1288.2
30°	1148.6	1160.5	1200.4	1240.3	1254.3
32.5°	1104.7	1116.7	1160.5	1200.4	1216.4
35°	1058.8	1074.8	1114.7	1156.6	1170.5
37.5°	1009.0	1026.9	1068.8	1104.7	1122.7
40°	959.1	975.1	1017.0	1054.9	1068.8
42.5°	909.3	923.2	963.1	1003.0	1015.0
45°	857.4	869.4	907.3	945.2	957.1
47.5°	801.6	815.6	851.5	883.4	897.3
50°	745.8	759.7	793.6	823.5	835.5
52.5°	691.9	699.9	731.8	759.7	773.7
55°	632.1	642.1	668.0	695.9	703.9
57.5°	574.3	580.3	606.2	630.1	642.1
60°	514.5	518.5	542.4	560.3	574.3
62.5°	458.6	458.6	476.6	496.5	504.5
65°	396.8	396.8	414.8	432.7	438.7
67.5°	337.0	341.0	352.9	366.9	370.9
70°	281.2	281.2	293.1	303.1	305.1
72.5°	231.3	229.3	235.3	243.3	247.3
75°	181.5	177.5	185.4	189.4	193.4
77.5°	137.6	135.6	139.6	143.6	143.6
80°	97.7	95.7	99.7	99.7	101.7
82.5°	63.8	65.8	65.8	63.8	61.8
85°	35.9	35.9	33.9	31.9	31.9
87.5°	12.0	12.0	12.0	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)