

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: P298324

Luminaire Tested: **D3X-WO-35L83050-LD5-UNV-22-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298324
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-35L83050-LD5-UNV-22-T1-W2A-5000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3752.0 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

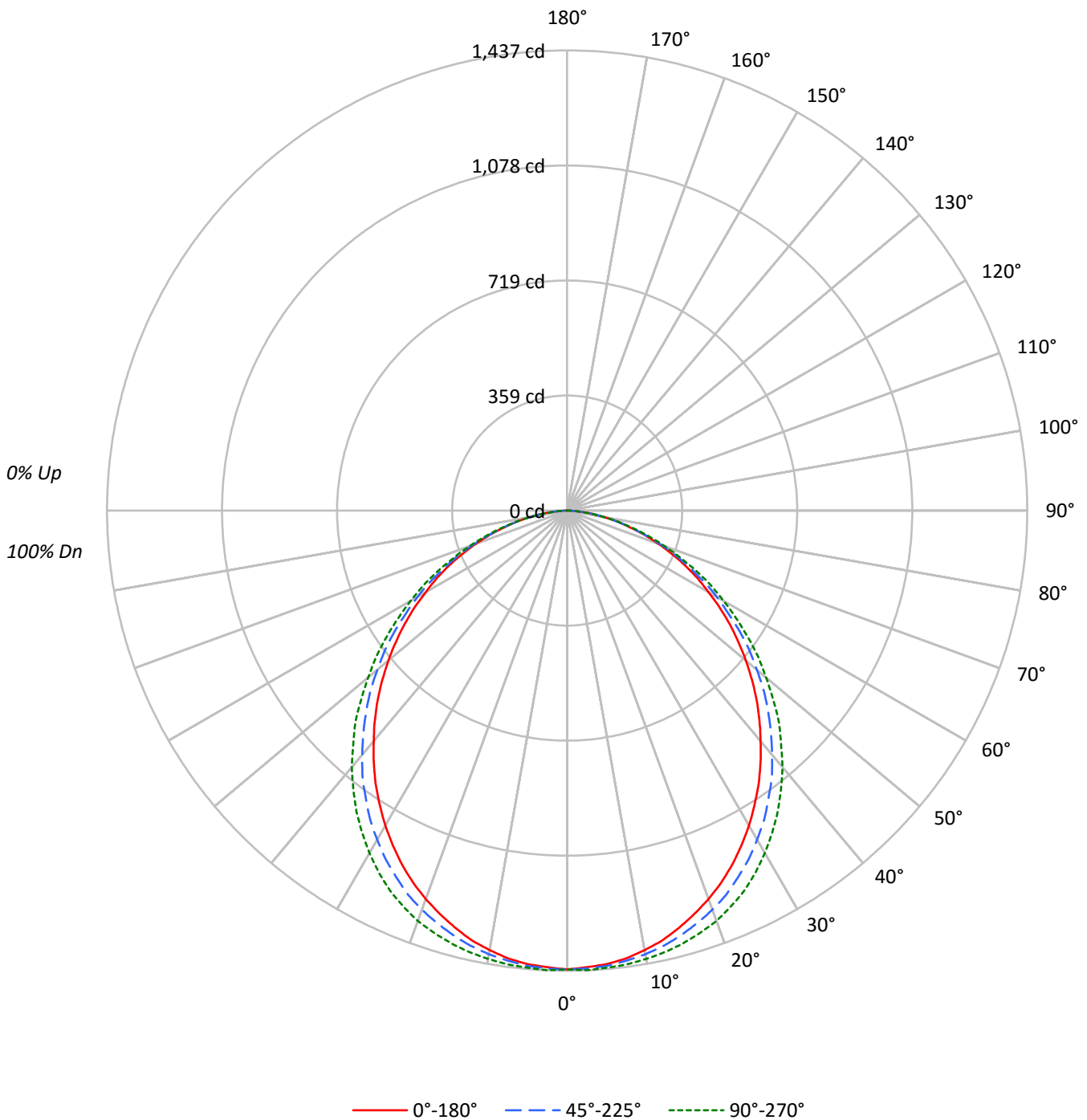
Input Watts (W): 29.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	70	62	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3856	3856	3856
5°	3840	3856	3871
10°	3808	3844	3885
15°	3758	3825	3898
20°	3697	3798	3905
25°	3622	3750	3888
30°	3529	3686	3837
35°	3424	3602	3768
40°	3301	3498	3675
45°	3185	3377	3562
50°	3050	3238	3394
55°	2910	3085	3234
60°	2745	2906	3037
65°	2593	2688	2819
70°	2381	2455	2543
75°	2117	2175	2233
80°	1824	1795	1795
85°	1383	1269	1155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.6	3.6
10°-20°	387.4	10.3
20°-30°	581.7	15.5
30°-40°	684.6	18.2
40°-50°	682.8	18.2
50°-60°	586.0	15.6
60°-70°	419.7	11.2
70°-80°	222.3	5.9
80°-90°	52.0	1.4
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°	1104.7	29.4
0°-40°	1789.3	47.7
0°-60°	3058.1	81.5
0°-90°	3752.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3752.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1433	1433	1433	1433	1433	
5°	1422	1422	1427	1431	1433	135
15°	1349	1354	1373	1392	1399	380
25°	1220	1231	1263	1295	1310	561
35°	1042	1056	1097	1134	1147	651
45°	837	850	887	919	936	645
55°	620	630	658	680	689	554
65°	407	409	422	439	443	402
75°	204	204	209	213	215	218
85°	45	43	41	37	37	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1432.9	1432.9	1432.9	1432.9	1432.9
2.5°	1427.3	1427.3	1431.0	1434.7	1436.6
5°	1421.6	1421.6	1427.3	1431.0	1432.9
7.5°	1410.4	1410.4	1417.9	1425.4	1429.1
10°	1393.6	1397.4	1406.7	1417.9	1421.6
12.5°	1374.9	1378.7	1391.8	1406.7	1412.3
15°	1348.8	1354.4	1373.1	1391.8	1399.2
17.5°	1320.8	1328.2	1350.7	1373.1	1382.4
20°	1290.9	1298.3	1326.4	1352.5	1363.7
22.5°	1257.3	1266.6	1298.3	1326.4	1337.6
25°	1219.9	1231.1	1262.9	1294.6	1309.6
27.5°	1178.8	1191.9	1227.4	1261.0	1274.1
30°	1135.8	1150.8	1186.3	1221.8	1234.8
32.5°	1089.1	1102.2	1145.2	1178.8	1191.9
35°	1042.4	1055.5	1096.6	1134.0	1147.0
37.5°	992.0	1008.8	1049.9	1083.5	1096.6
40°	939.7	956.5	995.7	1034.9	1046.2
42.5°	889.2	904.2	941.5	977.0	988.2
45°	836.9	850.0	887.4	919.1	935.9
47.5°	782.7	795.8	833.2	863.1	872.4
50°	728.6	741.6	773.4	799.6	810.8
52.5°	674.4	687.5	717.4	741.6	752.9
55°	620.2	629.6	657.6	680.0	689.3
57.5°	566.0	573.5	595.9	620.2	625.8
60°	510.0	519.3	539.9	556.7	564.2
62.5°	459.6	463.3	482.0	496.9	506.3
65°	407.3	409.1	422.2	439.0	442.7
67.5°	353.1	354.9	368.0	377.4	381.1
70°	302.6	302.6	312.0	319.5	323.2
72.5°	254.1	252.2	257.8	265.3	269.0
75°	203.6	203.6	209.2	213.0	214.8
77.5°	160.7	156.9	160.7	164.4	164.4
80°	117.7	115.8	115.8	117.7	115.8
82.5°	80.3	78.5	80.3	76.6	74.7
85°	44.8	43.0	41.1	37.4	37.4
87.5°	14.9	13.1	13.1	14.9	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)