

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: P298413

Luminaire Tested: **D3X-WO-40L93050-LD5-UNV-22-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298413
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-40L93050-LD5-UNV-22-T1-W2A-5000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3740.0 lumens
Efficiency: N/A
Efficacy: 112.0 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

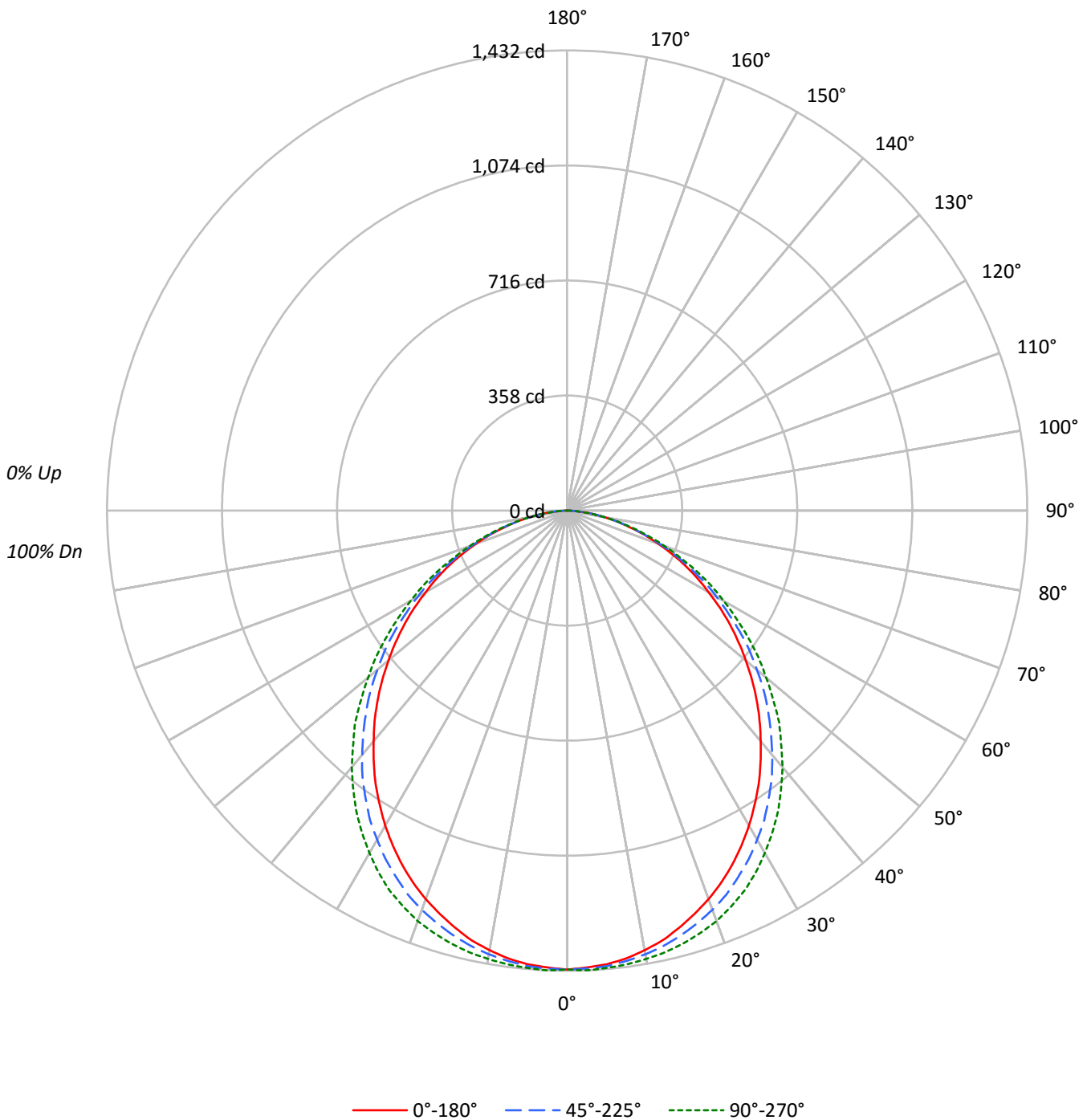
Input Watts (W): 33.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3844	3844	3844
5°	3828	3843	3858
10°	3796	3831	3872
15°	3746	3813	3886
20°	3685	3786	3893
25°	3611	3738	3876
30°	3518	3674	3825
35°	3414	3591	3756
40°	3290	3486	3663
45°	3175	3366	3550
50°	3040	3227	3383
55°	2900	3075	3224
60°	2736	2897	3027
65°	2585	2679	2810
70°	2374	2447	2535
75°	2111	2169	2226
80°	1818	1790	1790
85°	1380	1266	1149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.1	3.6
10°-20°	386.2	10.3
20°-30°	579.8	15.5
30°-40°	682.4	18.2
40°-50°	680.7	18.2
50°-60°	584.1	15.6
60°-70°	418.3	11.2
70°-80°	221.6	5.9
80°-90°	51.8	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°	1101.1	29.4
0°-40°	1783.5	47.7
0°-60°	3048.3	81.5
0°-90°	3740.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3740.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1428	1428	1428	1428	1428	
5°	1417	1417	1423	1426	1428	134
15°	1344	1350	1369	1387	1395	379
25°	1216	1227	1259	1290	1305	560
35°	1039	1052	1093	1130	1143	649
45°	834	847	884	916	933	643
55°	618	628	656	678	687	553
65°	406	408	421	438	441	401
75°	203	203	209	212	214	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°	1428.3	1428.3	1428.3	1428.3	1428.3
2.5°	1422.7	1422.7	1426.4	1430.1	1432.0
5°	1417.1	1417.1	1422.7	1426.4	1428.3
7.5°	1405.9	1405.9	1413.4	1420.8	1424.5
10°	1389.2	1392.9	1402.2	1413.4	1417.1
12.5°	1370.5	1374.3	1387.3	1402.2	1407.8
15°	1344.5	1350.1	1368.7	1387.3	1394.8
17.5°	1316.5	1324.0	1346.3	1368.7	1378.0
20°	1286.7	1294.2	1322.1	1348.2	1359.4
22.5°	1253.2	1262.5	1294.2	1322.1	1333.3
25°	1216.0	1227.2	1258.8	1290.5	1305.4
27.5°	1175.0	1188.1	1223.4	1257.0	1270.0
30°	1132.2	1147.1	1182.5	1217.8	1230.9
32.5°	1085.6	1098.7	1141.5	1175.0	1188.1
35°	1039.1	1052.1	1093.1	1130.3	1143.4
37.5°	988.8	1005.6	1046.5	1080.0	1093.1
40°	936.7	953.4	992.5	1031.6	1042.8
42.5°	886.4	901.3	938.5	973.9	985.1
45°	834.2	847.3	884.5	916.2	932.9
47.5°	780.2	793.3	830.5	860.3	869.6
50°	726.2	739.3	770.9	797.0	808.2
52.5°	672.2	685.3	715.1	739.3	750.4
55°	618.2	627.5	655.5	677.8	687.1
57.5°	564.2	571.7	594.0	618.2	623.8
60°	508.4	517.7	538.2	554.9	562.4
62.5°	458.1	461.8	480.4	495.3	504.6
65°	405.9	407.8	420.8	437.6	441.3
67.5°	351.9	353.8	366.8	376.2	379.9
70°	301.7	301.7	311.0	318.4	322.2
72.5°	253.3	251.4	257.0	264.4	268.2
75°	203.0	203.0	208.6	212.3	214.1
77.5°	160.1	156.4	160.1	163.9	163.9
80°	117.3	115.5	115.5	117.3	115.5
82.5°	80.1	78.2	80.1	76.3	74.5
85°	44.7	42.8	41.0	37.2	37.2
87.5°	14.9	13.0	13.0	14.9	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)