

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: P298080

Luminaire Tested: **D3X-WD-44L93050-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298080
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-44L93050-LD5-UNV-22-T1-W2A-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3725.0 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

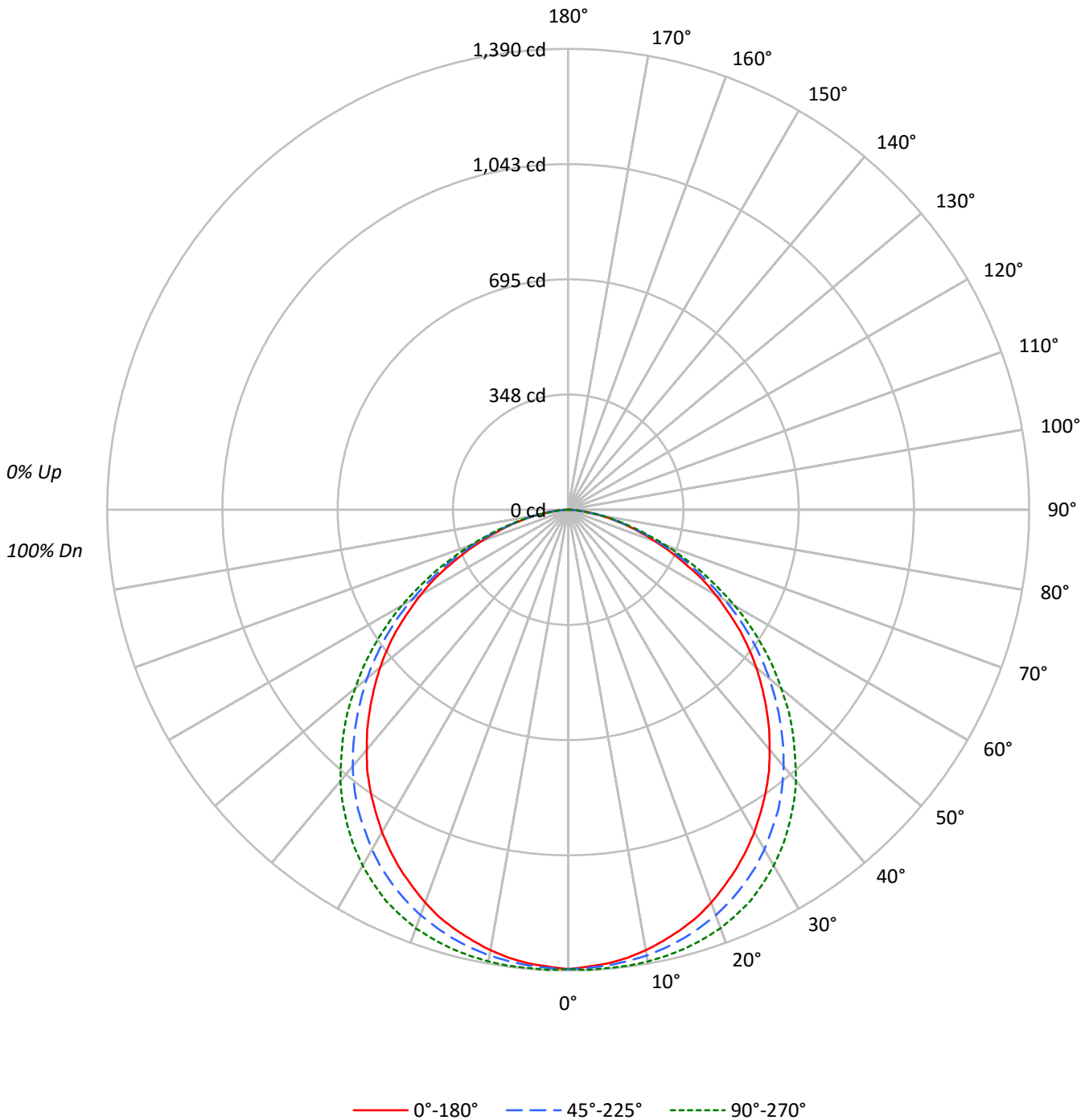
Input Watts (W): 36.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3728	3728	3728
5°	3710	3726	3748
10°	3687	3731	3780
15°	3653	3731	3815
20°	3612	3727	3847
25°	3554	3709	3864
30°	3489	3676	3850
35°	3412	3629	3814
40°	3318	3550	3754
45°	3212	3441	3647
50°	3098	3316	3509
55°	2954	3151	3349
60°	2763	2935	3130
65°	2502	2655	2821
70°	2209	2319	2445
75°	1897	1939	2022
80°	1522	1554	1585
85°	1115	991	991



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	3.5
10°-20°	378.2	10.2
20°-30°	575.3	15.4
30°-40°	688.3	18.5
40°-50°	695.8	18.7
50°-60°	598.8	16.1
60°-70°	413.4	11.1
70°-80°	200.5	5.4
80°-90°	43.5	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°	1084.8	29.1
0°-40°	1773.1	47.6
0°-60°	3067.7	82.4
0°-90°	3725.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3725.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1386	1386	1386	1386	1386	
5°	1374	1376	1380	1386	1388	130
15°	1311	1319	1339	1359	1369	370
25°	1197	1211	1249	1287	1301	551
35°	1039	1057	1105	1145	1161	649
45°	844	860	904	942	958	651
55°	630	640	672	702	714	561
65°	393	399	417	435	443	391
75°	182	178	186	192	194	194
85°	36	36	32	32	32	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1385.5	1385.5	1385.5	1385.5	1385.5
2.5°	1379.5	1379.5	1383.5	1387.5	1389.5
5°	1373.5	1375.5	1379.5	1385.5	1387.5
7.5°	1363.4	1365.4	1373.5	1383.5	1387.5
10°	1349.4	1353.4	1365.4	1377.5	1383.5
12.5°	1331.3	1339.4	1353.4	1369.4	1377.5
15°	1311.3	1319.3	1339.4	1359.4	1369.4
17.5°	1289.2	1297.3	1321.3	1347.4	1357.4
20°	1261.2	1273.2	1301.3	1331.3	1343.4
22.5°	1229.1	1245.1	1277.2	1309.3	1323.3
25°	1197.0	1211.0	1249.1	1287.2	1301.3
27.5°	1160.9	1177.0	1219.1	1257.2	1271.2
30°	1122.8	1138.9	1183.0	1225.1	1239.1
32.5°	1080.7	1100.8	1142.9	1187.0	1203.0
35°	1038.6	1056.7	1104.8	1144.9	1160.9
37.5°	994.5	1010.5	1058.7	1100.8	1116.8
40°	944.4	962.4	1010.5	1052.6	1068.7
42.5°	896.3	914.3	958.4	998.5	1012.5
45°	844.1	860.2	904.3	942.4	958.4
47.5°	792.0	810.0	848.1	886.2	902.3
50°	739.9	753.9	792.0	828.1	838.1
52.5°	685.7	697.8	731.8	763.9	778.0
55°	629.6	639.6	671.7	701.8	713.8
57.5°	569.4	581.5	611.5	633.6	647.6
60°	513.3	519.3	545.4	567.4	581.5
62.5°	457.1	459.2	479.2	501.3	509.3
65°	393.0	399.0	417.0	435.1	443.1
67.5°	334.8	340.9	354.9	368.9	374.9
70°	280.7	280.7	294.7	304.8	310.8
72.5°	226.6	228.6	238.6	244.6	250.6
75°	182.5	178.4	186.5	192.5	194.5
77.5°	136.3	134.3	140.4	142.4	146.4
80°	98.2	98.2	100.3	102.3	102.3
82.5°	64.2	64.2	66.2	62.2	60.2
85°	36.1	36.1	32.1	32.1	32.1
87.5°	12.0	12.0	12.0	14.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)