

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: P297922

Luminaire Tested: **D3X-WO-40L93050-LD5-UNV-14-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-1)
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-14-T1-W2A-4500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3789.0 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

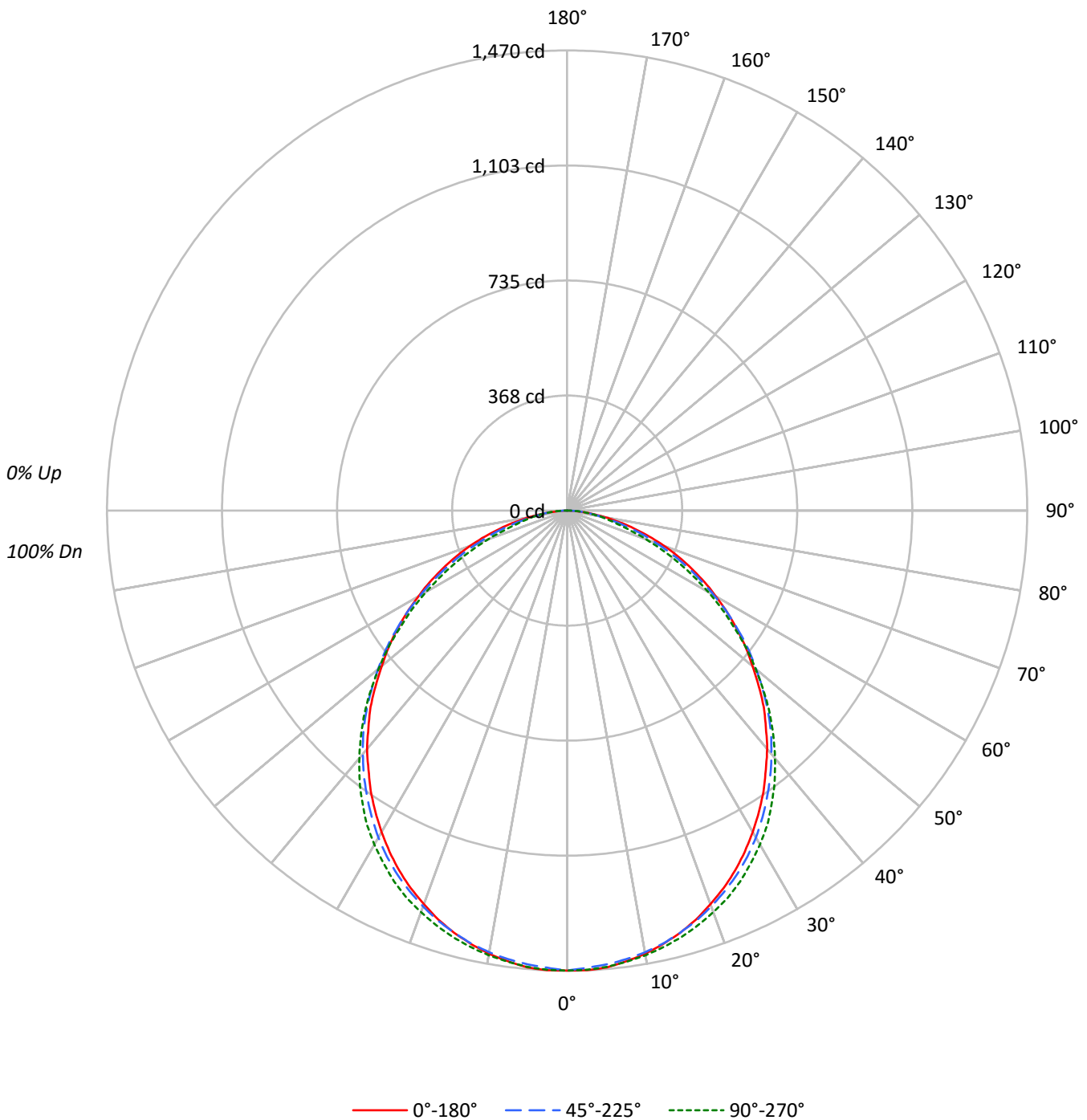
Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	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	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	63	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	46	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	29					29			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3955	3955	3955
5°	3957	3931	3952
10°	3928	3915	3941
15°	3888	3888	3929
20°	3831	3854	3909
25°	3768	3810	3882
30°	3683	3748	3828
35°	3593	3662	3746
40°	3492	3566	3628
45°	3380	3454	3484
50°	3234	3301	3288
55°	3112	3135	3052
60°	2956	2913	2801
65°	2792	2679	2495
70°	2591	2376	2110
75°	2304	2037	1736
80°	1917	1667	1618
85°	1389	1488	1488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.7	3.7
10°-20°	395.1	10.4
20°-30°	592.1	15.6
30°-40°	697.6	18.4
40°-50°	695.8	18.4
50°-60°	591.8	15.6
60°-70°	413.1	10.9
70°-80°	210.0	5.5
80°-90°	54.8	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°	1125.9	29.7
0°-40°	1823.5	48.1
0°-60°	3111.1	82.1
0°-90°	3789.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3789.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1470	1470	1470	1470	1470	
5°	1465	1462	1455	1463	1463	139
15°	1396	1396	1396	1409	1410	393
25°	1269	1270	1283	1303	1307	584
35°	1094	1095	1115	1137	1140	683
45°	888	891	908	914	916	683
55°	663	663	668	658	650	593
65°	438	432	421	398	392	435
75°	222	214	196	172	167	235
85°	45	47	48	48	48	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1469.6	1469.6	1469.6	1469.6	1469.6
2.5°	1469.6	1468.0	1461.6	1468.0	1468.0
5°	1464.8	1461.6	1455.2	1463.2	1463.2
7.5°	1452.0	1450.3	1445.5	1453.6	1453.6
10°	1437.5	1435.9	1432.7	1442.3	1442.3
12.5°	1418.2	1418.2	1416.6	1426.3	1427.9
15°	1395.7	1395.7	1395.7	1408.6	1410.2
17.5°	1370.0	1368.4	1373.3	1387.7	1389.3
20°	1337.9	1339.5	1345.9	1362.0	1365.2
22.5°	1305.8	1307.4	1315.4	1334.7	1339.5
25°	1268.9	1270.5	1283.3	1302.6	1307.4
27.5°	1228.7	1231.9	1246.4	1267.2	1270.5
30°	1185.3	1188.5	1206.2	1227.1	1231.9
32.5°	1140.4	1145.2	1161.2	1183.7	1190.2
35°	1093.8	1095.4	1114.7	1137.1	1140.4
37.5°	1042.4	1047.2	1066.5	1085.8	1089.0
40°	994.2	997.4	1015.1	1031.1	1032.8
42.5°	939.6	944.4	963.7	974.9	974.9
45°	888.2	891.4	907.5	913.9	915.5
47.5°	830.4	833.6	848.0	851.3	851.3
50°	772.6	780.6	788.6	788.6	785.4
52.5°	719.6	721.2	730.8	724.4	721.2
55°	663.3	663.3	668.2	658.5	650.5
57.5°	607.1	607.1	607.1	594.3	587.8
60°	549.3	547.7	541.3	525.2	520.4
62.5°	494.7	489.9	480.2	464.2	454.5
65°	438.5	432.1	420.8	398.3	391.9
67.5°	385.5	374.2	361.4	340.5	329.3
70°	329.3	319.6	302.0	277.9	268.2
72.5°	274.7	265.0	250.6	226.5	212.0
75°	221.6	213.6	195.9	171.9	167.0
77.5°	170.3	165.4	147.8	136.5	134.9
80°	123.7	122.1	107.6	104.4	104.4
82.5°	81.9	80.3	75.5	75.5	73.9
85°	45.0	46.6	48.2	48.2	48.2
87.5°	16.1	19.3	22.5	22.5	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)