

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: P297150

Luminaire Tested: **D3X-WG-50L93050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297150
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-50L93050-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3989.0 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

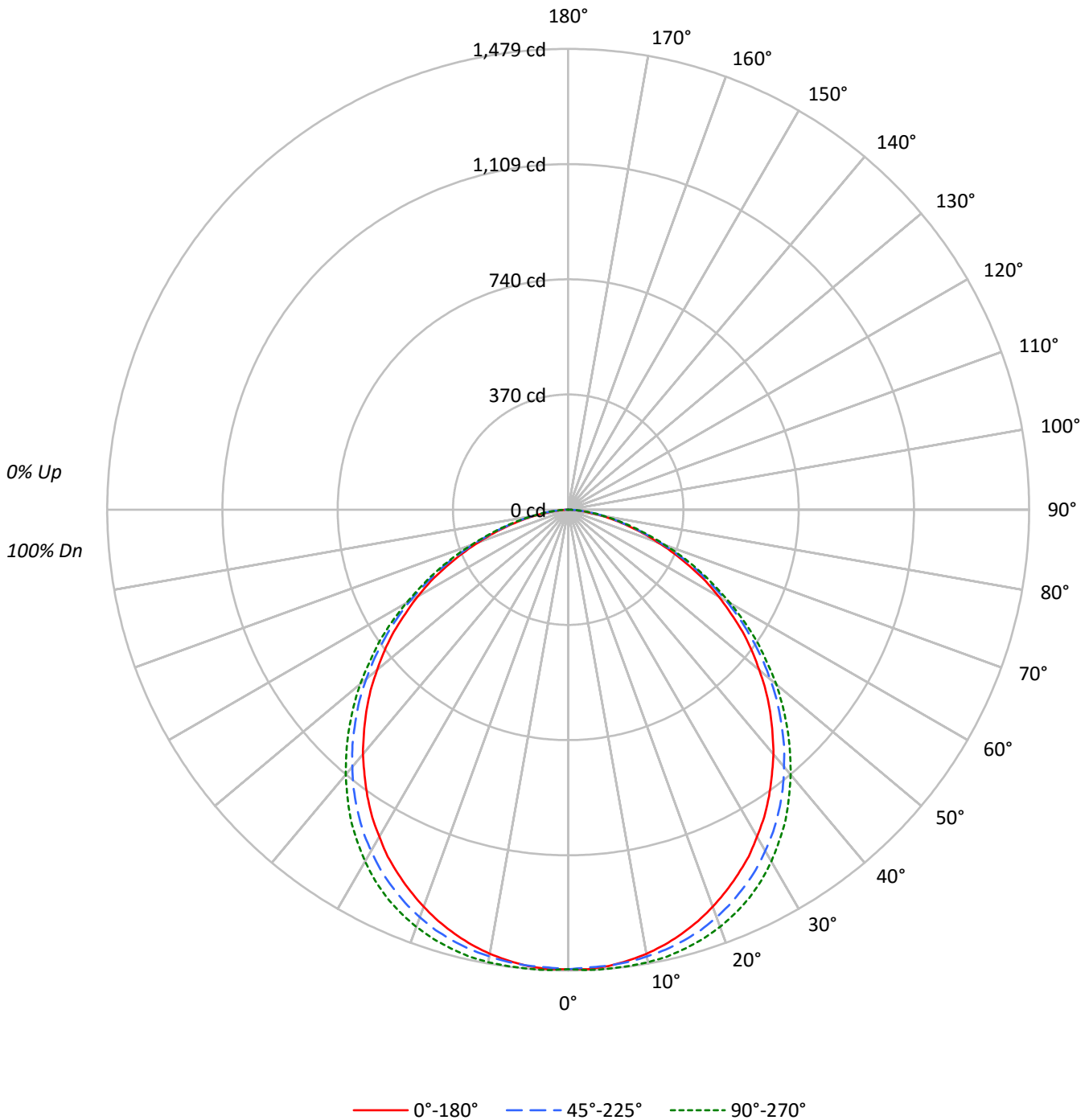
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	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	47	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	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1984	1984	1984
5°	1986	1984	1997
10°	1978	1989	2015
15°	1963	1994	2030
20°	1942	1993	2040
25°	1916	1983	2041
30°	1883	1965	2025
35°	1845	1936	1997
40°	1799	1892	1950
45°	1743	1838	1892
50°	1675	1771	1824
55°	1602	1683	1736
60°	1500	1577	1615
65°	1369	1442	1479
70°	1203	1265	1299
75°	1018	1070	1107
80°	808	886	908
85°	551	662	639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.1	3.5
10°-20°	404.5	10.1
20°-30°	614.8	15.4
30°-40°	733.6	18.4
40°-50°	740.9	18.6
50°-60°	638.3	16.0
60°-70°	445.0	11.2
70°-80°	220.5	5.5
80°-90°	51.4	1.3
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°	1159.4	29.1
0°-40°	1892.9	47.5
0°-60°	3272.1	82.0
0°-90°	3989.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3989.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1475	1475	1475	1475	1475	
5°	1470	1469	1469	1476	1479	140
15°	1409	1416	1432	1450	1458	397
25°	1290	1308	1336	1363	1375	594
35°	1123	1142	1179	1206	1216	702
45°	916	936	966	989	994	706
55°	683	697	717	734	740	609
65°	430	439	453	457	464	427
75°	196	199	206	210	213	211
85°	36	43	43	40	41	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1474.6	1474.6	1474.6	1474.6	1474.6
2.5°	1476.1	1473.2	1470.4	1476.1	1478.9
5°	1470.4	1468.9	1468.9	1476.1	1478.9
7.5°	1460.4	1460.4	1464.6	1474.6	1477.5
10°	1447.5	1450.4	1456.1	1470.4	1474.6
12.5°	1430.4	1436.1	1446.1	1463.2	1468.9
15°	1408.9	1416.1	1431.8	1450.4	1457.5
17.5°	1384.6	1394.6	1414.6	1436.1	1443.2
20°	1356.0	1368.9	1391.8	1416.1	1424.6
22.5°	1324.6	1340.3	1366.1	1391.8	1401.8
25°	1290.3	1307.5	1336.0	1363.2	1374.6
27.5°	1254.6	1271.7	1303.2	1330.3	1341.8
30°	1211.7	1231.7	1264.6	1293.2	1303.2
32.5°	1170.3	1190.3	1224.6	1250.3	1260.3
35°	1123.1	1141.7	1178.9	1206.0	1216.0
37.5°	1073.1	1094.6	1130.3	1154.6	1163.1
40°	1024.5	1043.1	1077.4	1101.7	1110.3
42.5°	970.2	990.2	1024.5	1046.0	1053.1
45°	915.9	935.9	966.0	988.8	994.5
47.5°	860.2	878.8	908.8	927.4	933.1
50°	800.2	817.3	845.9	864.5	871.6
52.5°	743.0	758.8	783.0	798.8	803.1
55°	683.0	697.3	717.3	734.5	740.2
57.5°	618.7	634.4	653.0	667.3	671.6
60°	557.3	570.1	585.9	598.7	600.1
62.5°	497.3	503.0	517.3	528.7	530.1
65°	430.1	438.7	453.0	457.3	464.4
67.5°	368.7	374.4	385.8	391.5	397.2
70°	305.8	310.1	321.5	328.7	330.1
72.5°	251.5	252.9	261.5	267.2	268.6
75°	195.8	198.6	205.8	210.1	212.9
77.5°	148.6	151.5	157.2	160.0	160.0
80°	104.3	108.6	114.3	115.7	117.2
82.5°	67.2	72.9	77.2	78.6	75.7
85°	35.7	42.9	42.9	40.0	41.4
87.5°	12.9	15.7	17.1	18.6	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)