

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: P298331

Luminaire Tested: **D3X-WO-44L83050-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298331
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-44L83050-LD5-UNV-22-T1-W2A-3500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4385.0 lumens
Efficiency: N/A
Efficacy: 123.2 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

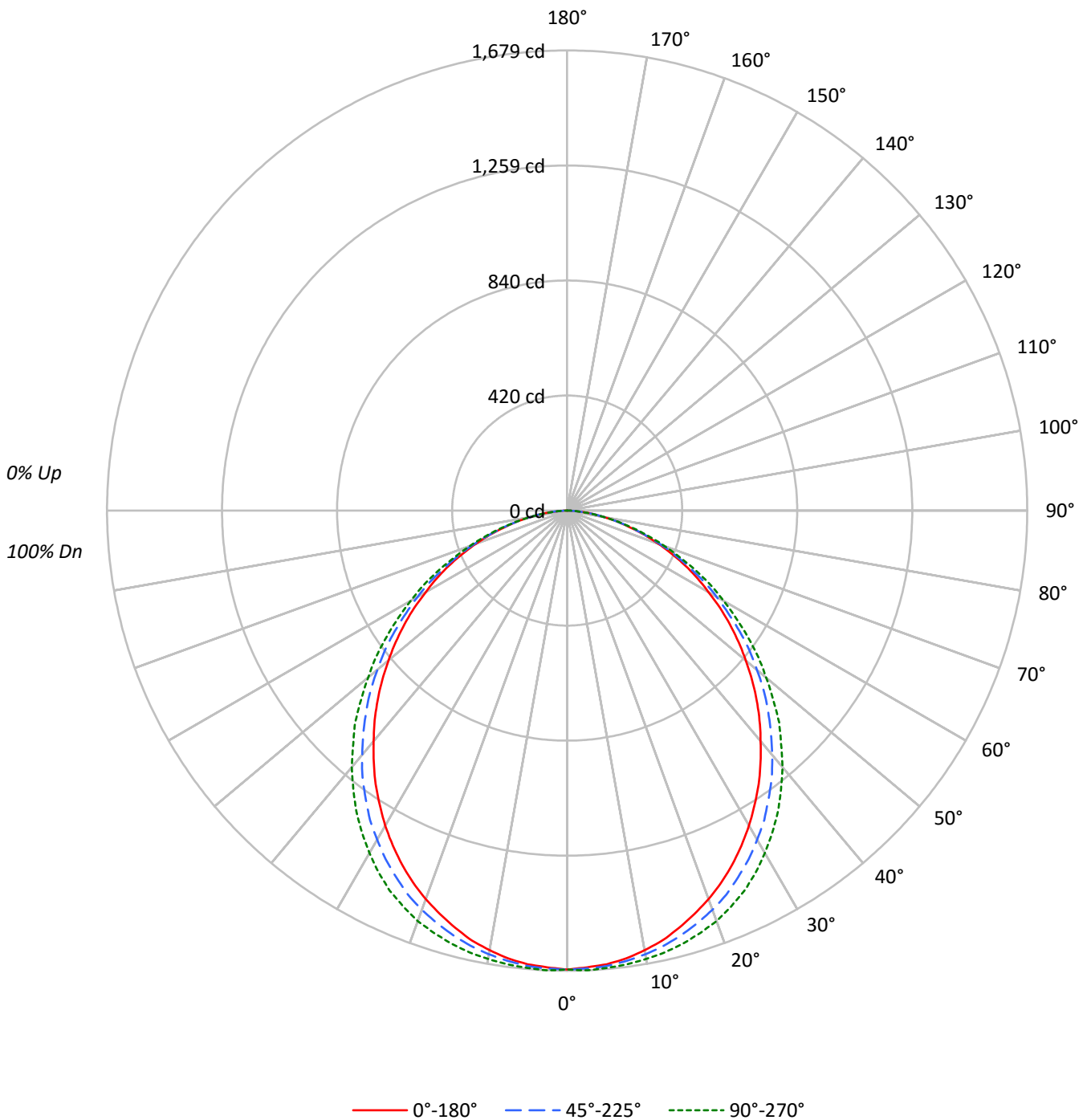
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4506	4506	4506
5°	4488	4506	4524
10°	4450	4492	4540
15°	4391	4471	4556
20°	4320	4439	4564
25°	4233	4382	4544
30°	4125	4308	4484
35°	4002	4210	4404
40°	3858	4088	4295
45°	3722	3947	4163
50°	3565	3784	3967
55°	3401	3605	3780
60°	3208	3396	3549
65°	3031	3142	3294
70°	2783	2869	2972
75°	2475	2542	2611
80°	2131	2098	2098
85°	1618	1482	1349



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.4	3.6
10°-20°	452.8	10.3
20°-30°	679.8	15.5
30°-40°	800.1	18.2
40°-50°	798.1	18.2
50°-60°	684.9	15.6
60°-70°	490.5	11.2
70°-80°	259.7	5.9
80°-90°	60.7	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°	1291.0	29.4
0°-40°	2091.1	47.7
0°-60°	3574.1	81.5
0°-90°	4385.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4385.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1675	1675	1675	1675	1675	
5°	1662	1662	1668	1672	1675	158
15°	1576	1583	1605	1627	1635	444
25°	1426	1439	1476	1513	1530	656
35°	1218	1234	1282	1325	1340	761
45°	978	993	1037	1074	1094	754
55°	725	736	768	795	806	648
65°	476	478	493	513	517	470
75°	238	238	244	249	251	255
85°	52	50	48	44	44	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1674.6	1674.6	1674.6	1674.6	1674.6
2.5°	1668.0	1668.0	1672.4	1676.8	1679.0
5°	1661.5	1661.5	1668.0	1672.4	1674.6
7.5°	1648.4	1648.4	1657.1	1665.9	1670.2
10°	1628.7	1633.1	1644.0	1657.1	1661.5
12.5°	1606.9	1611.3	1626.6	1644.0	1650.6
15°	1576.3	1582.9	1604.7	1626.6	1635.3
17.5°	1543.6	1552.3	1578.5	1604.7	1615.6
20°	1508.7	1517.4	1550.1	1580.7	1593.8
22.5°	1469.4	1480.3	1517.4	1550.1	1563.2
25°	1425.7	1438.8	1475.9	1513.0	1530.5
27.5°	1377.7	1392.9	1434.4	1473.7	1489.0
30°	1327.4	1344.9	1386.4	1427.9	1443.2
32.5°	1272.9	1288.1	1338.4	1377.7	1392.9
35°	1218.3	1233.6	1281.6	1325.3	1340.5
37.5°	1159.3	1179.0	1227.0	1266.3	1281.6
40°	1098.2	1117.9	1163.7	1209.5	1222.6
42.5°	1039.3	1056.7	1100.4	1141.9	1155.0
45°	978.1	993.4	1037.1	1074.2	1093.8
47.5°	914.8	930.1	973.8	1008.7	1019.6
50°	851.5	866.8	903.9	934.5	947.6
52.5°	788.2	803.5	838.4	866.8	879.9
55°	724.9	735.8	768.5	794.7	805.6
57.5°	661.5	670.3	696.5	724.9	731.4
60°	596.0	607.0	631.0	650.6	659.4
62.5°	537.1	541.5	563.3	580.8	591.7
65°	476.0	478.1	493.4	513.1	517.4
67.5°	412.6	414.8	430.1	441.0	445.4
70°	353.7	353.7	364.6	373.3	377.7
72.5°	296.9	294.7	301.3	310.0	314.4
75°	238.0	238.0	244.5	248.9	251.1
77.5°	187.8	183.4	187.8	192.1	192.1
80°	137.5	135.4	135.4	137.5	135.4
82.5°	93.9	91.7	93.9	89.5	87.3
85°	52.4	50.2	48.0	43.7	43.7
87.5°	17.5	15.3	15.3	17.5	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)