

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: P298050

Luminaire Tested: **D3X-WD-44L82765-LD5-UNV-22-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298050
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-44L82765-LD5-UNV-22-T1-W2A-5500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4219.0 lumens
Efficiency: N/A
Efficacy: 115.3 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

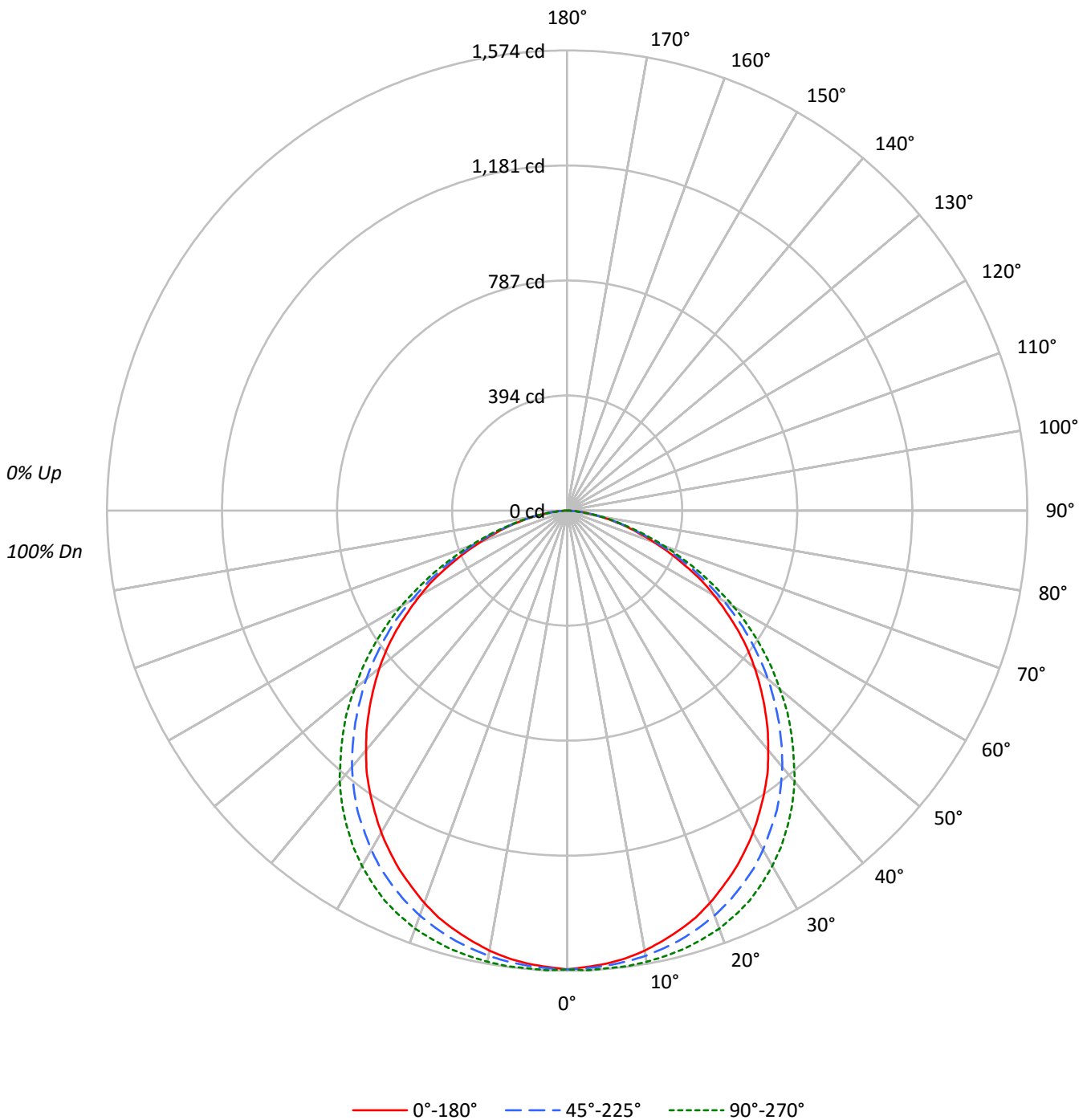
Input Watts (W): 36.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4223	4223	4223
5°	4202	4220	4245
10°	4176	4226	4282
15°	4138	4226	4321
20°	4090	4220	4357
25°	4026	4201	4376
30°	3952	4163	4361
35°	3864	4111	4320
40°	3757	4021	4252
45°	3639	3898	4131
50°	3508	3755	3974
55°	3346	3569	3793
60°	3129	3324	3545
65°	2834	3008	3196
70°	2501	2626	2769
75°	2149	2196	2290
80°	1725	1759	1795
85°	1263	1121	1121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.7	3.5
10°-20°	428.4	10.2
20°-30°	651.6	15.4
30°-40°	779.5	18.5
40°-50°	788.1	18.7
50°-60°	678.2	16.1
60°-70°	468.2	11.1
70°-80°	227.0	5.4
80°-90°	49.2	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°	1228.6	29.1
0°-40°	2008.2	47.6
0°-60°	3474.5	82.4
0°-90°	4219.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4219.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1569	1569	1569	1569	1569	
5°	1556	1558	1562	1569	1572	148
15°	1485	1494	1517	1540	1551	419
25°	1356	1372	1415	1458	1474	624
35°	1176	1197	1251	1297	1315	735
45°	956	974	1024	1067	1086	738
55°	713	724	761	795	808	636
65°	445	452	472	493	502	443
75°	207	202	211	218	220	219
85°	41	41	36	36	36	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1569.2	1569.2	1569.2	1569.2	1569.2
2.5°	1562.4	1562.4	1566.9	1571.5	1573.8
5°	1555.6	1557.9	1562.4	1569.2	1571.5
7.5°	1544.2	1546.5	1555.6	1566.9	1571.5
10°	1528.3	1532.9	1546.5	1560.1	1566.9
12.5°	1507.9	1517.0	1532.9	1551.1	1560.1
15°	1485.2	1494.3	1517.0	1539.7	1551.1
17.5°	1460.2	1469.3	1496.5	1526.1	1537.4
20°	1428.4	1442.0	1473.8	1507.9	1521.5
22.5°	1392.1	1410.3	1446.6	1482.9	1498.8
25°	1355.8	1371.6	1414.8	1457.9	1473.8
27.5°	1314.9	1333.0	1380.7	1423.9	1439.8
30°	1271.7	1289.9	1339.9	1387.5	1403.4
32.5°	1224.0	1246.7	1294.4	1344.4	1362.6
35°	1176.3	1196.8	1251.3	1296.7	1314.9
37.5°	1126.4	1144.6	1199.1	1246.7	1264.9
40°	1069.6	1090.1	1144.6	1192.2	1210.4
42.5°	1015.1	1035.5	1085.5	1130.9	1146.8
45°	956.1	974.2	1024.2	1067.3	1085.5
47.5°	897.0	917.5	960.6	1003.8	1021.9
50°	838.0	853.9	897.0	937.9	949.3
52.5°	776.7	790.3	828.9	865.2	881.1
55°	713.1	724.4	760.8	794.8	808.5
57.5°	644.9	658.6	692.6	717.6	733.5
60°	581.4	588.2	617.7	642.7	658.6
62.5°	517.8	520.0	542.8	567.7	576.8
65°	445.1	451.9	472.4	492.8	501.9
67.5°	379.2	386.1	402.0	417.9	424.7
70°	317.9	317.9	333.8	345.2	352.0
72.5°	256.6	258.9	270.2	277.1	283.9
75°	206.7	202.1	211.2	218.0	220.3
77.5°	154.4	152.2	159.0	161.2	165.8
80°	111.3	111.3	113.5	115.8	115.8
82.5°	72.7	72.7	74.9	70.4	68.1
85°	40.9	40.9	36.3	36.3	36.3
87.5°	13.6	13.6	13.6	15.9	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)