

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: P296999

Luminaire Tested: **D3X-WG-42L83050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296999
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-42L83050-LD5-UNV-24-T1-W2A-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3745.0 lumens
Efficiency: N/A
Efficacy: 129.1 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

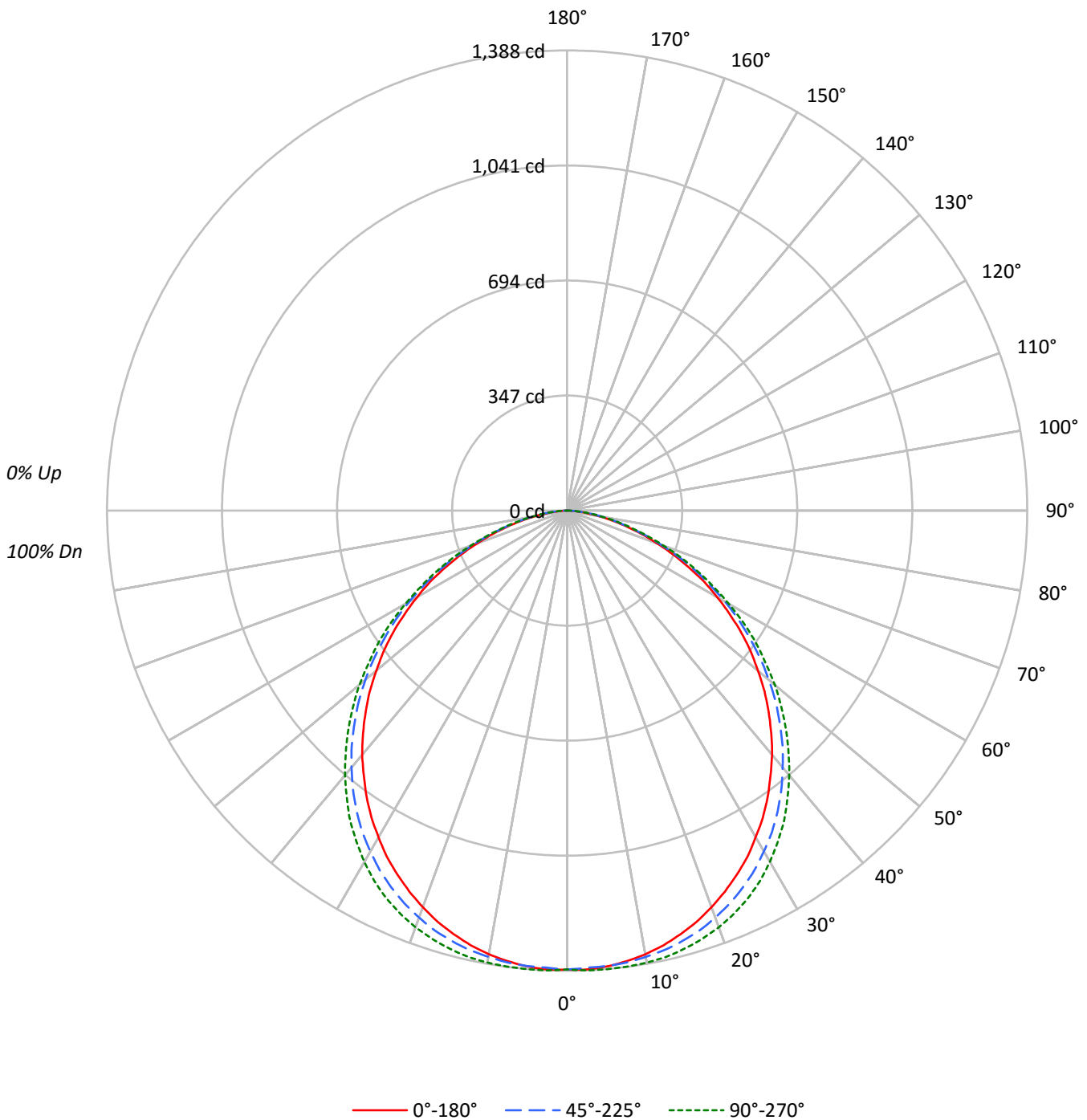
Input Watts (W): 29
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1863	1863	1863
5°	1864	1863	1875
10°	1857	1868	1891
15°	1842	1872	1906
20°	1823	1871	1915
25°	1798	1862	1916
30°	1767	1844	1901
35°	1732	1818	1875
40°	1689	1777	1831
45°	1636	1726	1777
50°	1573	1662	1713
55°	1504	1580	1630
60°	1408	1480	1516
65°	1286	1354	1388
70°	1129	1187	1219
75°	955	1004	1039
80°	759	831	852
85°	517	621	601



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	3.5
10°-20°	379.8	10.1
20°-30°	577.1	15.4
30°-40°	688.7	18.4
40°-50°	695.5	18.6
50°-60°	599.3	16.0
60°-70°	417.7	11.2
70°-80°	207.0	5.5
80°-90°	48.3	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°	1088.5	29.1
0°-40°	1777.1	47.5
0°-60°	3071.9	82.0
0°-90°	3745.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3745.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1384	1384	1384	1384	1384	
5°	1380	1379	1379	1386	1388	131
15°	1323	1329	1344	1362	1368	373
25°	1211	1228	1254	1280	1290	558
35°	1054	1072	1107	1132	1142	659
45°	860	879	907	928	934	663
55°	641	655	673	690	695	572
65°	404	412	425	429	436	401
75°	184	186	193	197	200	198
85°	34	40	40	38	39	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1384.4	1384.4	1384.4	1384.4	<i>1384.4</i>
2.5°	<i>1385.8</i>	<i>1383.1</i>	<i>1380.4</i>	<i>1385.8</i>	<i>1388.5</i>
5°	1380.4	1379.1	1379.1	1385.8	<i>1388.5</i>
7.5°	1371.0	1371.0	1375.1	1384.4	<i>1387.1</i>
10°	1359.0	1361.6	1367.0	1380.4	<i>1384.4</i>
12.5°	1342.9	1348.2	1357.6	1373.7	<i>1379.1</i>
15°	1322.7	1329.4	1344.2	1361.6	<i>1368.3</i>
17.5°	1299.9	1309.3	1328.1	1348.2	<i>1354.9</i>
20°	1273.1	1285.2	1306.6	1329.4	<i>1337.5</i>
22.5°	1243.6	1258.3	1282.5	1306.6	<i>1316.0</i>
25°	1211.4	1227.5	1254.3	1279.8	<i>1290.5</i>
27.5°	1177.9	1194.0	1223.5	1249.0	<i>1259.7</i>
30°	1137.6	1156.4	1187.2	1214.1	<i>1223.5</i>
32.5°	1098.7	1117.5	1149.7	1173.8	<i>1183.2</i>
35°	1054.4	1071.9	1106.8	1132.2	<i>1141.6</i>
37.5°	1007.5	1027.6	1061.1	1083.9	<i>1092.0</i>
40°	961.9	979.3	1011.5	1034.3	<i>1042.4</i>
42.5°	910.9	929.7	961.9	982.0	<i>988.7</i>
45°	859.9	878.7	906.9	928.3	<i>933.7</i>
47.5°	807.6	825.0	853.2	870.6	<i>876.0</i>
50°	751.3	767.3	794.2	811.6	<i>818.3</i>
52.5°	697.6	712.3	735.2	749.9	<i>753.9</i>
55°	641.2	654.7	673.4	689.5	<i>694.9</i>
57.5°	580.9	595.6	613.1	626.5	<i>630.5</i>
60°	523.2	535.3	550.0	562.1	<i>563.4</i>
62.5°	466.8	472.2	485.6	496.4	<i>497.7</i>
65°	403.8	411.8	425.3	429.3	<i>436.0</i>
67.5°	346.1	351.5	362.2	367.6	<i>372.9</i>
70°	287.1	291.1	301.8	308.5	<i>309.9</i>
72.5°	236.1	237.4	245.5	250.9	<i>252.2</i>
75°	183.8	186.5	193.2	197.2	<i>199.9</i>
77.5°	139.5	142.2	147.6	150.3	<i>150.3</i>
80°	97.9	102.0	107.3	108.7	<i>110.0</i>
82.5°	63.1	68.4	72.4	73.8	<i>71.1</i>
85°	33.5	40.2	40.2	37.6	<i>38.9</i>
87.5°	12.1	14.8	16.1	17.4	<i>17.4</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)