

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: P298309

Luminaire Tested: **D3X-WO-20L83050-LD5-UNV-22-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298309
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-20L83050-LD5-UNV-22-T1-W2A-5000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2126.0 lumens
Efficiency: N/A
Efficacy: 131.2 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

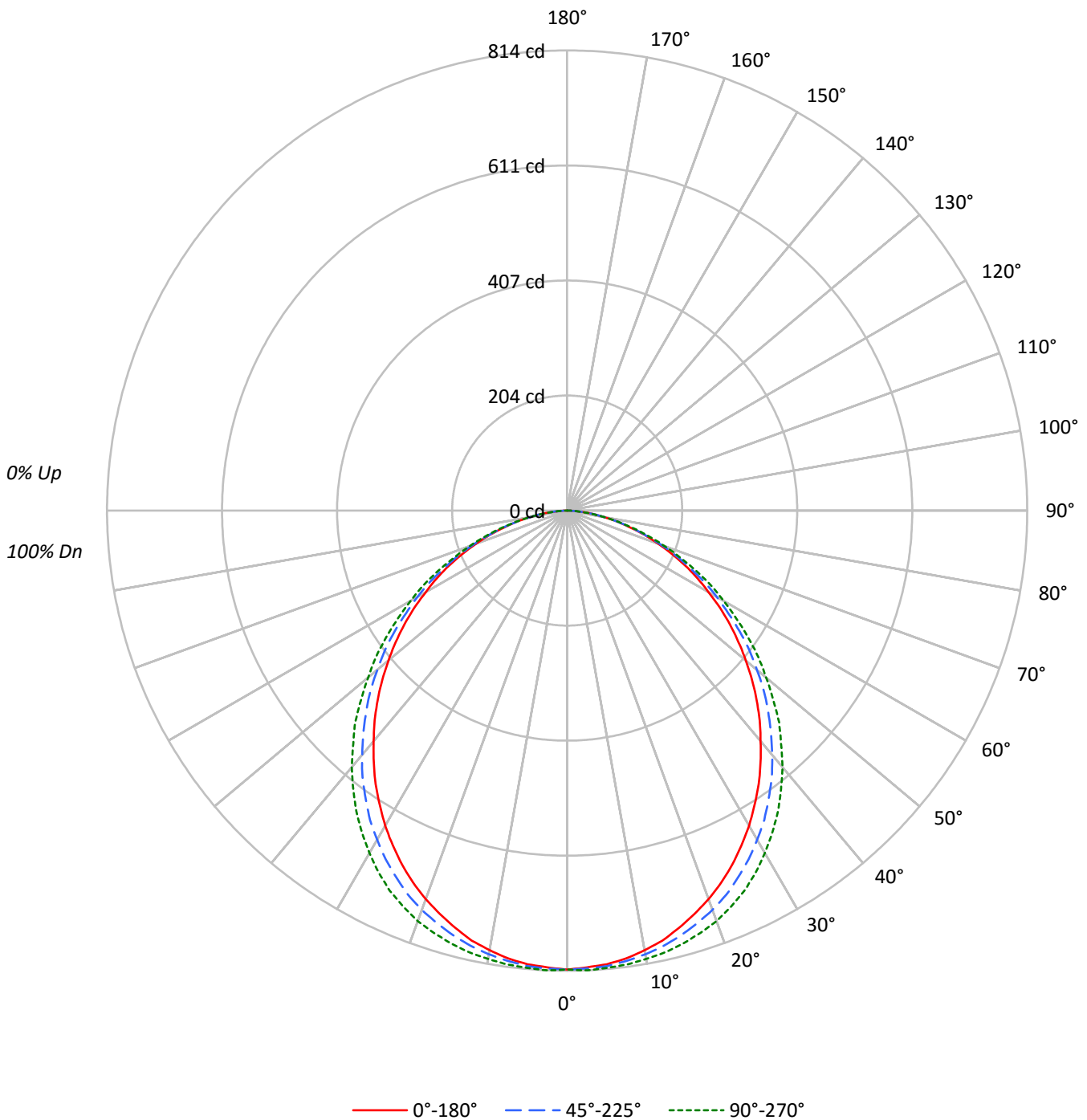
Input Watts (W): 16.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2185	2185	2185
5°	2176	2185	2193
10°	2158	2178	2201
15°	2129	2167	2209
20°	2095	2152	2213
25°	2052	2125	2203
30°	2000	2089	2174
35°	1940	2041	2135
40°	1870	1982	2082
45°	1805	1913	2018
50°	1728	1834	1923
55°	1649	1748	1833
60°	1555	1646	1721
65°	1470	1523	1598
70°	1349	1391	1441
75°	1200	1233	1265
80°	1034	1017	1017
85°	784	719	655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	3.6
10°-20°	219.5	10.3
20°-30°	329.6	15.5
30°-40°	387.9	18.2
40°-50°	386.9	18.2
50°-60°	332.0	15.6
60°-70°	237.8	11.2
70°-80°	125.9	5.9
80°-90°	29.5	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°	625.9	29.4
0°-40°	1013.9	47.7
0°-60°	1732.8	81.5
0°-90°	2126.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2126.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	812	812	812	812	812	
5°	806	806	809	811	812	76
15°	764	767	778	789	793	215
25°	691	698	716	734	742	318
35°	591	598	621	642	650	369
45°	474	482	503	521	530	365
55°	351	357	373	385	391	314
65°	231	232	239	249	251	228
75°	115	115	119	121	122	124
85°	25	24	23	21	21	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	811.9	811.9	811.9	811.9	811.9
2.5°	808.7	808.7	810.8	813.0	814.0
5°	805.5	805.5	808.7	810.8	811.9
7.5°	799.2	799.2	803.4	807.7	809.8
10°	789.7	791.8	797.1	803.4	805.5
12.5°	779.1	781.2	788.6	797.1	800.3
15°	764.3	767.4	778.0	788.6	792.8
17.5°	748.4	752.6	765.3	778.0	783.3
20°	731.5	735.7	751.6	766.4	772.7
22.5°	712.4	717.7	735.7	751.6	757.9
25°	691.2	697.6	715.6	733.6	742.0
27.5°	667.9	675.3	695.5	714.5	721.9
30°	643.6	652.1	672.2	692.3	699.7
32.5°	617.1	624.5	648.9	667.9	675.3
35°	590.7	598.1	621.4	642.5	649.9
37.5°	562.1	571.6	594.9	614.0	621.4
40°	532.4	542.0	564.2	586.4	592.8
42.5°	503.9	512.3	533.5	553.6	560.0
45°	474.2	481.6	502.8	520.8	530.3
47.5°	443.5	450.9	472.1	489.0	494.3
50°	412.8	420.2	438.2	453.1	459.4
52.5°	382.1	389.5	406.5	420.2	426.6
55°	351.4	356.7	372.6	385.3	390.6
57.5°	320.7	325.0	337.7	351.4	354.6
60°	289.0	294.3	305.9	315.4	319.7
62.5°	260.4	262.5	273.1	281.6	286.9
65°	230.8	231.8	239.2	248.8	250.9
67.5°	200.1	201.1	208.5	213.8	215.9
70°	171.5	171.5	176.8	181.0	183.1
72.5°	144.0	142.9	146.1	150.3	152.4
75°	115.4	115.4	118.6	120.7	121.7
77.5°	91.0	88.9	91.0	93.2	93.2
80°	66.7	65.6	65.6	66.7	65.6
82.5°	45.5	44.5	45.5	43.4	42.3
85°	25.4	24.3	23.3	21.2	21.2
87.5°	8.5	7.4	7.4	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)