

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: P298138

Luminaire Tested: **D3X-WG-20L83050-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-20L83050-LD5-UNV-22-T1-W2A-3500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1882.0 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

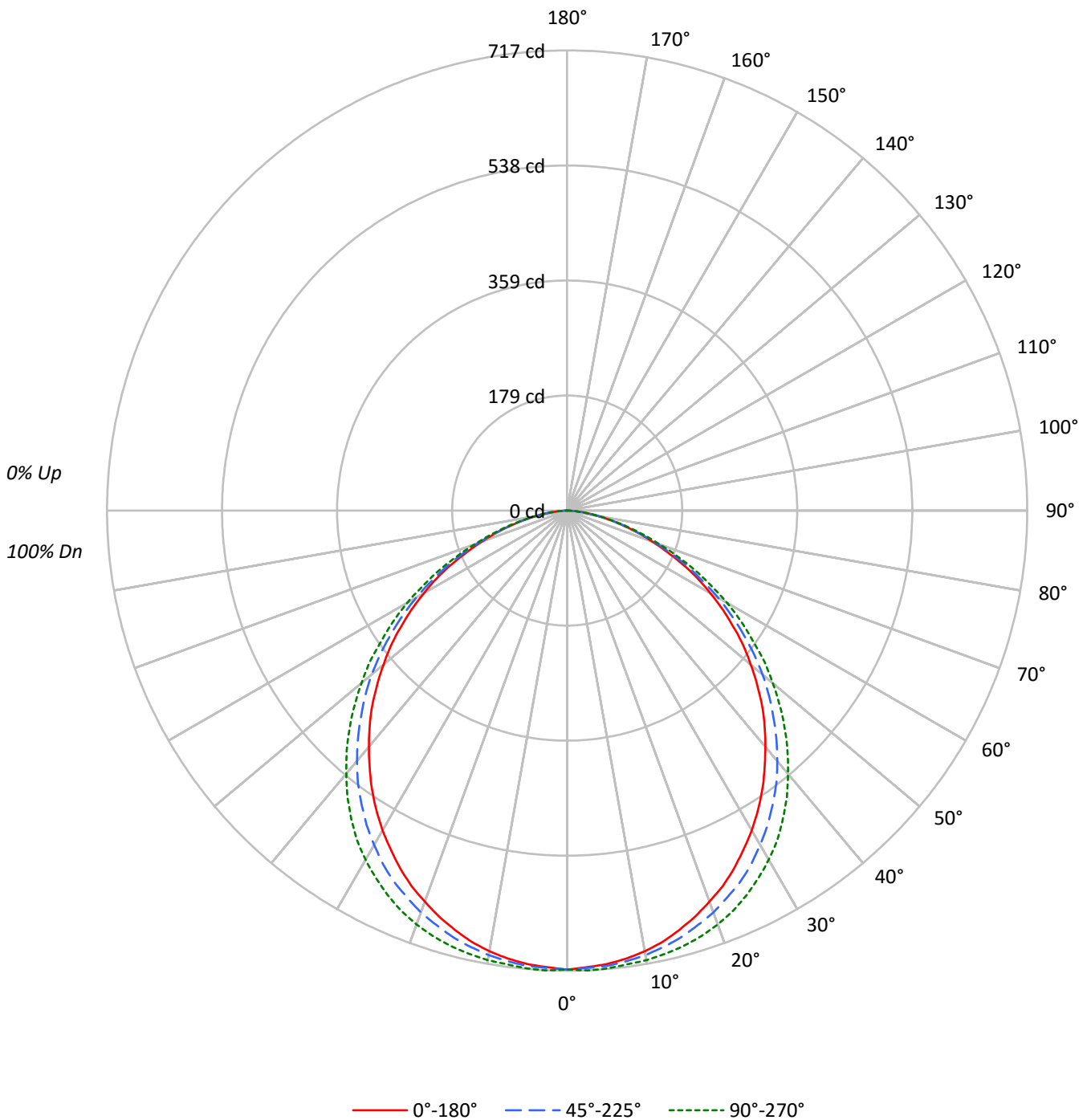
Input Watts (W): 15.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	86	80	97	90	84	79	87	82	77		83	79	76		80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49		59	53	48		58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43		54	47	42		52	47	42	40
7	66	53	44	38	64	52	44	38	51	43	38		49	43	38		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	39	34		44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31		42	35	30		41	35	30	28
10	54	41	33	28	53	40	33	28	40	33	28		39	32	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1925	1925	1925
5°	1916	1924	1935
10°	1905	1921	1943
15°	1884	1917	1956
20°	1857	1908	1965
25°	1827	1895	1964
30°	1788	1868	1952
35°	1742	1834	1926
40°	1688	1789	1881
45°	1635	1730	1825
50°	1564	1665	1752
55°	1485	1570	1654
60°	1387	1462	1548
65°	1266	1323	1400
70°	1108	1155	1202
75°	945	966	1007
80°	758	773	789
85°	556	525	494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.7	3.6
10°-20°	194.3	10.3
20°-30°	293.7	15.6
30°-40°	348.9	18.5
40°-50°	350.3	18.6
50°-60°	299.2	15.9
60°-70°	206.1	11.0
70°-80°	99.9	5.3
80°-90°	21.9	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°	555.7	29.5
0°-40°	904.6	48.1
0°-60°	1554.1	82.6
0°-90°	1882.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1882.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	715	715	715	715	715	
5°	709	709	712	714	716	67
15°	676	679	688	697	702	191
25°	615	620	638	655	661	283
35°	530	538	558	579	586	331
45°	430	436	454	474	480	331
55°	317	322	335	349	353	283
65°	199	199	208	217	220	197
75°	91	89	93	95	97	98
85°	18	18	17	16	16	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	715.2	715.2	715.2	715.2	715.2
2.5°	712.2	712.2	713.2	716.2	717.2
5°	709.2	709.2	712.2	714.2	716.2
7.5°	704.2	705.2	708.2	712.2	713.2
10°	697.2	698.2	703.2	708.2	711.2
12.5°	688.2	690.2	696.2	704.2	707.2
15°	676.2	679.2	688.2	697.2	702.2
17.5°	663.3	667.3	677.2	690.2	695.2
20°	648.3	653.3	666.3	680.2	686.2
22.5°	633.3	637.3	652.3	668.3	675.2
25°	615.3	620.3	638.3	655.3	661.3
27.5°	595.3	602.3	621.3	639.3	645.3
30°	575.4	581.4	601.3	621.3	628.3
32.5°	553.4	559.4	581.4	601.3	609.3
35°	530.4	538.4	558.4	579.4	586.3
37.5°	505.4	514.4	535.4	553.4	562.4
40°	480.5	488.5	509.4	528.4	535.4
42.5°	455.5	462.5	482.5	502.4	508.4
45°	429.5	435.5	454.5	473.5	479.5
47.5°	401.6	408.5	426.5	442.5	449.5
50°	373.6	380.6	397.6	412.5	418.5
52.5°	346.6	350.6	366.6	380.6	387.6
55°	316.6	321.6	334.6	348.6	352.6
57.5°	287.7	290.7	303.7	315.6	321.6
60°	257.7	259.7	271.7	280.7	287.7
62.5°	229.7	229.7	238.7	248.7	252.7
65°	198.8	198.8	207.8	216.8	219.8
67.5°	168.8	170.8	176.8	183.8	185.8
70°	140.8	140.8	146.8	151.8	152.8
72.5°	115.9	114.9	117.9	121.9	123.9
75°	90.9	88.9	92.9	94.9	96.9
77.5°	68.9	67.9	69.9	71.9	71.9
80°	48.9	47.9	49.9	49.9	50.9
82.5°	32.0	33.0	33.0	32.0	31.0
85°	18.0	18.0	17.0	16.0	16.0
87.5°	6.0	6.0	6.0	7.0	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)