

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: P298391

Luminaire Tested: **D3X-WO-20L93050-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298391
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-20L93050-LD5-UNV-22-T1-W2A-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1842.0 lumens
Efficiency: N/A
Efficacy: 116.6 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

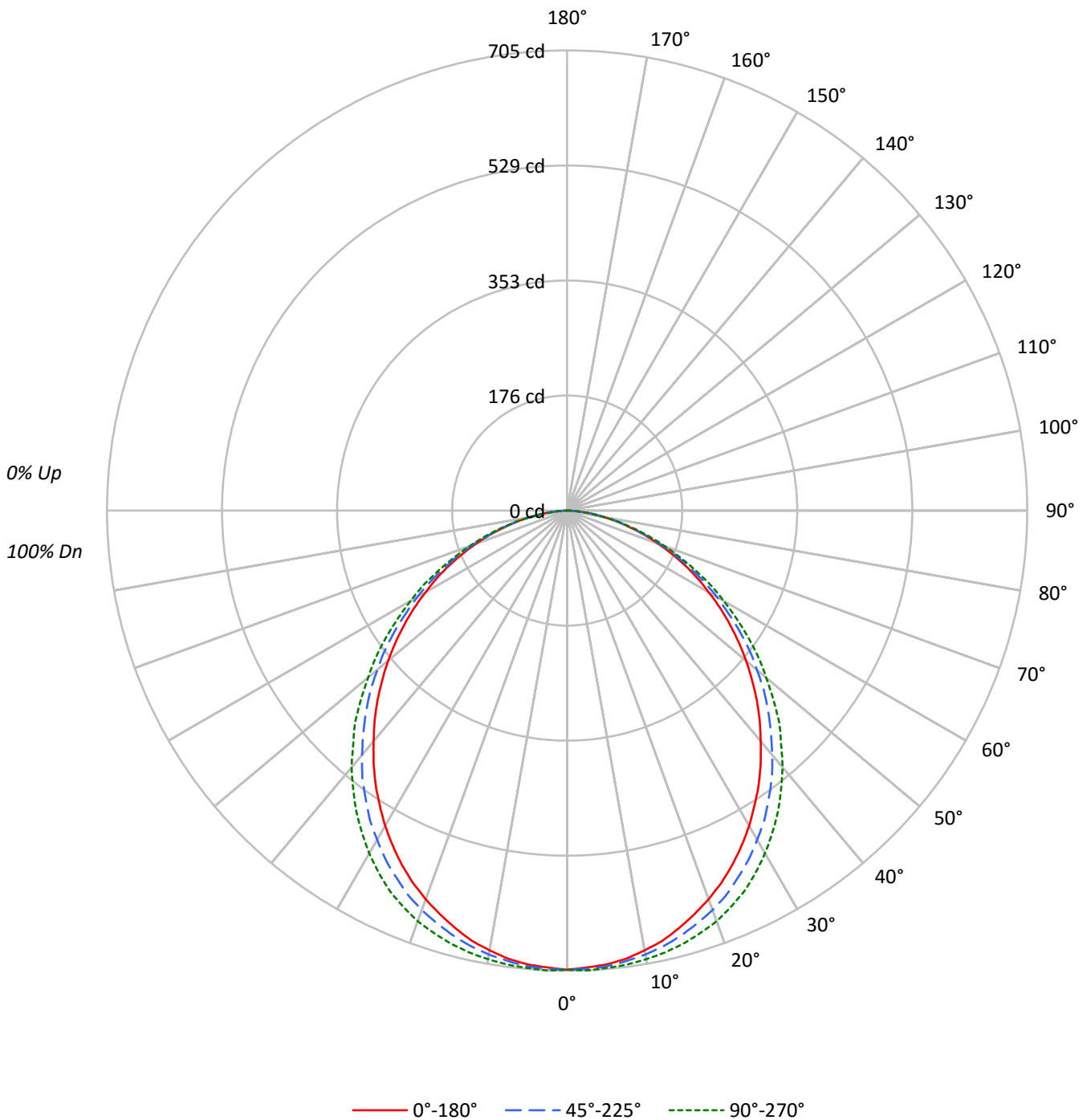
Input Watts (W): 15.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1893	1893	1893
5°	1885	1893	1900
10°	1870	1887	1907
15°	1845	1878	1914
20°	1815	1865	1917
25°	1778	1841	1909
30°	1733	1810	1884
35°	1681	1769	1850
40°	1620	1717	1804
45°	1564	1658	1749
50°	1497	1590	1666
55°	1429	1514	1588
60°	1348	1427	1491
65°	1273	1320	1384
70°	1169	1205	1249
75°	1040	1068	1097
80°	896	882	882
85°	679	624	565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	3.6
10°-20°	190.2	10.3
20°-30°	285.6	15.5
30°-40°	336.1	18.2
40°-50°	335.2	18.2
50°-60°	287.7	15.6
60°-70°	206.0	11.2
70°-80°	109.1	5.9
80°-90°	25.5	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°	542.3	29.4
0°-40°	878.4	47.7
0°-60°	1501.3	81.5
0°-90°	1842.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1842.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	703	703	703	703	703	
5°	698	698	701	702	703	66
15°	662	665	674	683	687	187
25°	599	604	620	636	643	276
35°	512	518	538	557	563	320
45°	411	417	436	451	460	317
55°	304	309	323	334	338	272
65°	200	201	207	216	217	197
75°	100	100	103	105	106	107
85°	22	21	20	18	18	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	703.4	703.4	703.4	703.4	703.4
2.5°	700.7	700.7	702.5	704.4	705.3
5°	697.9	697.9	700.7	702.5	703.4
7.5°	692.4	692.4	696.1	699.8	701.6
10°	684.2	686.0	690.6	696.1	697.9
12.5°	675.0	676.8	683.3	690.6	693.4
15°	662.2	664.9	674.1	683.3	686.9
17.5°	648.4	652.1	663.1	674.1	678.7
20°	633.7	637.4	651.2	664.0	669.5
22.5°	617.2	621.8	637.4	651.2	656.7
25°	598.9	604.4	620.0	635.6	642.9
27.5°	578.7	585.1	602.6	619.1	625.5
30°	557.6	565.0	582.4	599.8	606.2
32.5°	534.7	541.1	562.2	578.7	585.1
35°	511.8	518.2	538.4	556.7	563.1
37.5°	487.0	495.3	515.4	531.9	538.4
40°	461.3	469.6	488.8	508.1	513.6
42.5°	436.6	443.9	462.2	479.7	485.2
45°	410.9	417.3	435.6	451.2	459.5
47.5°	384.3	390.7	409.0	423.7	428.3
50°	357.7	364.1	379.7	392.5	398.0
52.5°	331.1	337.5	352.2	364.1	369.6
55°	304.5	309.1	322.8	333.8	338.4
57.5°	277.9	281.6	292.6	304.5	307.2
60°	250.4	255.0	265.1	273.3	277.0
62.5°	225.6	227.4	236.6	244.0	248.5
65°	199.9	200.9	207.3	215.5	217.4
67.5°	173.3	174.3	180.7	185.3	187.1
70°	148.6	148.6	153.2	156.8	158.7
72.5°	124.7	123.8	126.6	130.2	132.1
75°	100.0	100.0	102.7	104.6	105.5
77.5°	78.9	77.0	78.9	80.7	80.7
80°	57.8	56.9	56.9	57.8	56.9
82.5°	39.4	38.5	39.4	37.6	36.7
85°	22.0	21.1	20.2	18.3	18.3
87.5°	7.3	6.4	6.4	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)