

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: P297717

Luminaire Tested: **D3X-WG-23L82765-LD5-UNV-14-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-23L82765-LD5-UNV-14-T1-W2A-4000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2240.0 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

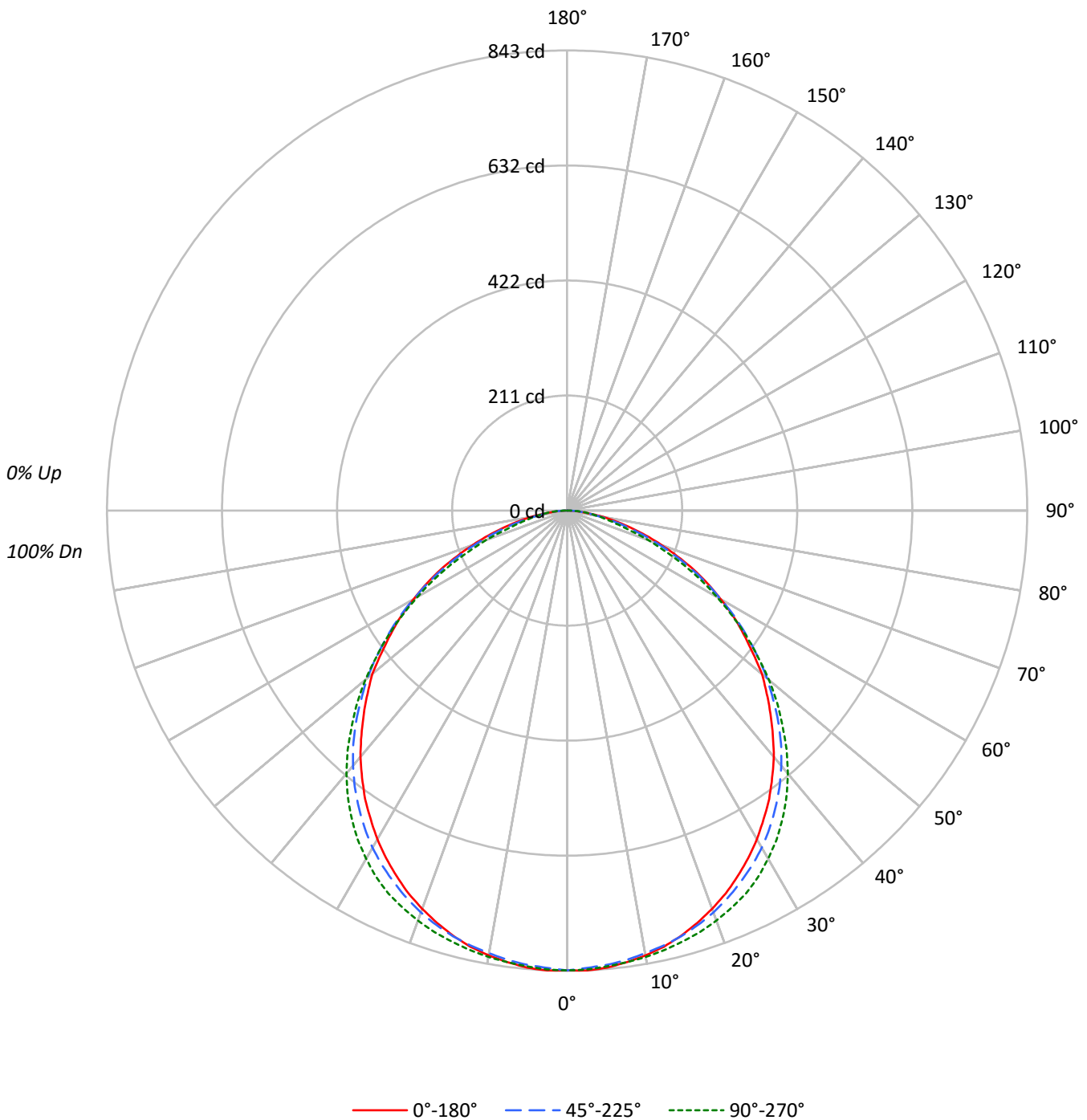
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	77	83	79	75	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	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	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°	2267	2267	2267
5°	2270	2257	2265
10°	2261	2250	2269
15°	2247	2249	2277
20°	2223	2243	2289
25°	2195	2231	2299
30°	2160	2216	2288
35°	2119	2185	2261
40°	2069	2143	2210
45°	2005	2081	2123
50°	1950	2000	2021
55°	1852	1889	1880
60°	1752	1752	1703
65°	1626	1588	1499
70°	1442	1379	1245
75°	1250	1135	959
80°	1024	885	869
85°	679	803	865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	3.6
10°-20°	228.6	10.2
20°-30°	347.5	15.5
30°-40°	416.0	18.6
40°-50°	419.7	18.7
50°-60°	357.4	16.0
60°-70°	244.4	10.9
70°-80°	117.0	5.2
80°-90°	29.6	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°	655.8	29.3
0°-40°	1071.8	47.8
0°-60°	1848.9	82.5
0°-90°	2240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2240.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	840	839	835	839	838	80
15°	806	804	807	816	817	227
25°	739	740	751	768	774	341
35°	645	647	665	684	688	403
45°	527	531	547	558	558	407
55°	395	397	403	404	401	353
65°	255	250	249	240	235	252
75°	120	118	109	95	92	128
85°	22	24	26	27	28	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	842.4	842.4	842.4	842.4	842.4
2.5°	843.4	842.4	838.4	842.4	841.4
5°	840.4	839.4	835.4	839.4	838.4
7.5°	834.4	833.4	830.4	834.4	834.4
10°	827.4	825.4	823.4	829.4	830.4
12.5°	818.4	816.4	816.4	823.4	824.4
15°	806.4	804.4	807.4	816.4	817.4
17.5°	792.3	791.3	796.3	807.4	809.4
20°	776.3	775.3	783.3	796.3	799.3
22.5°	759.3	759.3	768.3	783.3	787.3
25°	739.2	740.2	751.3	768.3	774.3
27.5°	718.2	720.2	733.2	752.3	757.3
30°	695.2	698.2	713.2	731.2	736.2
32.5°	670.1	673.1	690.2	709.2	714.2
35°	645.1	647.1	665.1	684.2	688.2
37.5°	617.0	620.0	639.1	656.1	660.1
40°	589.0	592.0	610.0	626.1	629.1
42.5°	557.9	561.9	580.0	593.0	595.0
45°	526.9	530.9	546.9	557.9	557.9
47.5°	495.8	497.8	511.9	522.9	521.9
50°	465.8	464.8	477.8	482.8	482.8
52.5°	428.7	431.7	440.7	443.7	440.7
55°	394.7	396.7	402.7	403.7	400.7
57.5°	361.6	360.6	365.6	362.6	358.6
60°	325.5	325.5	325.5	322.5	316.5
62.5°	290.5	288.5	287.5	280.5	277.5
65°	255.4	250.4	249.4	240.4	235.4
67.5°	218.4	216.4	211.4	202.3	193.3
70°	183.3	181.3	175.3	164.3	158.3
72.5°	151.3	149.3	141.2	128.2	120.2
75°	120.2	118.2	109.2	95.2	92.2
77.5°	91.2	90.2	81.1	74.1	73.1
80°	66.1	65.1	57.1	57.1	56.1
82.5°	42.1	42.1	40.1	41.1	42.1
85°	22.0	24.0	26.0	27.0	28.0
87.5°	7.0	11.0	13.0	14.0	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)