

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: P296846

Luminaire Tested: **D3X-WD-80L82765-LD5-UNV-24-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-80L82765-LD5-UNV-24-T1-W2A-5500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7870.0 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

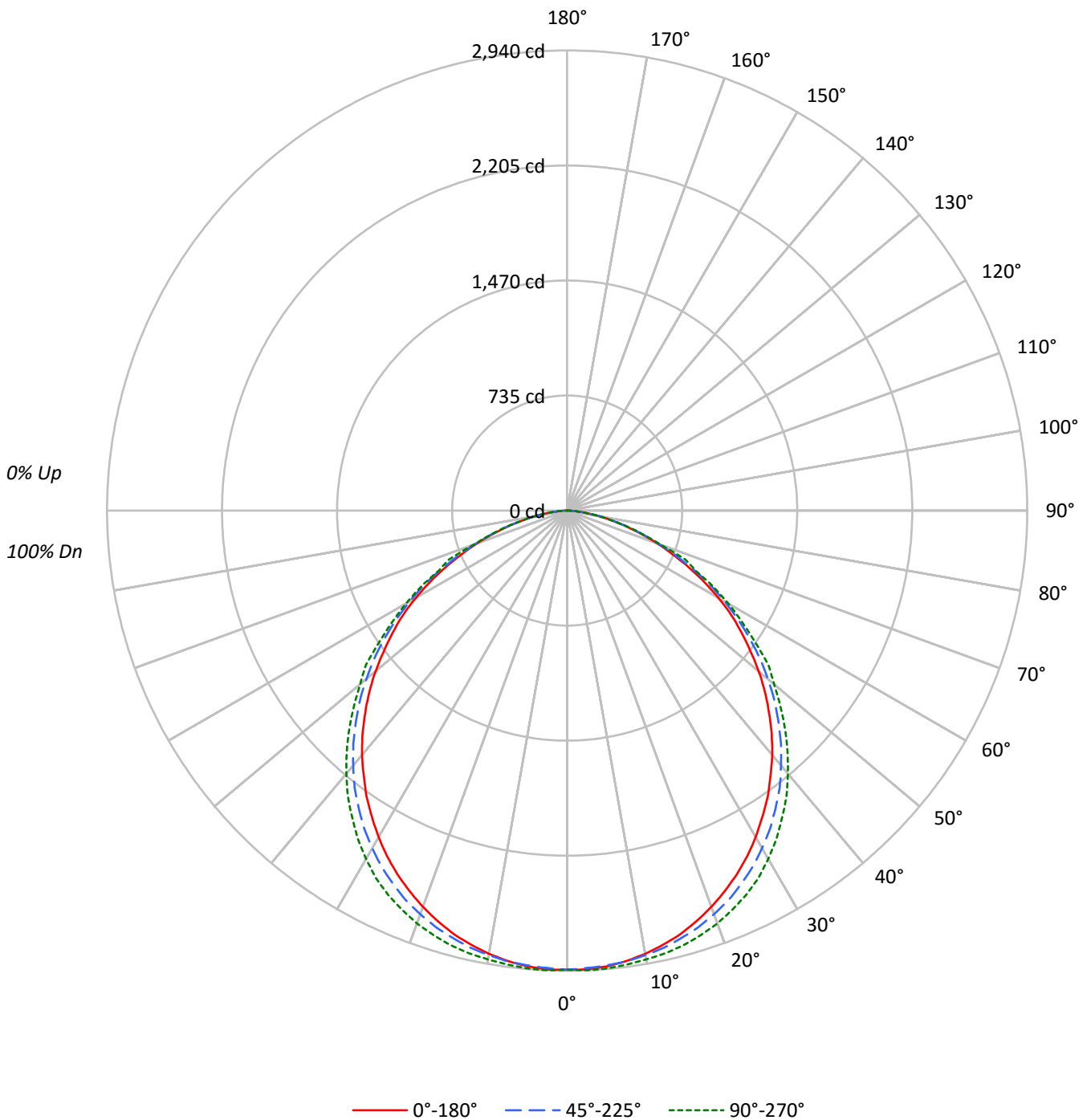
Input Watts (W): 62.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
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	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	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3948	3948	3948
5°	3947	3940	3966
10°	3927	3939	3978
15°	3902	3937	4004
20°	3857	3930	4019
25°	3806	3907	4020
30°	3742	3869	3992
35°	3669	3812	3933
40°	3581	3735	3854
45°	3471	3632	3745
50°	3345	3505	3611
55°	3193	3339	3438
60°	3009	3123	3199
65°	2733	2823	2877
70°	2399	2455	2488
75°	2026	2055	2070
80°	1619	1641	1597
85°	1090	1133	1090



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.0	3.5
10°-20°	799.6	10.2
20°-30°	1213.2	15.4
30°-40°	1448.4	18.4
40°-50°	1466.3	18.6
50°-60°	1267.5	16.1
60°-70°	878.5	11.2
70°-80°	425.0	5.4
80°-90°	93.4	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°	2290.8	29.1
0°-40°	3739.2	47.5
0°-60°	6473.0	82.2
0°-90°	7870.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7870.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2934	2934	2934	2934	2934	
5°	2923	2920	2917	2931	2937	277
15°	2801	2807	2827	2860	2875	789
25°	2564	2581	2632	2685	2708	1181
35°	2234	2253	2321	2380	2394	1395
45°	1824	1850	1909	1957	1968	1407
55°	1361	1375	1423	1482	1466	1216
65°	858	867	887	901	904	850
75°	390	392	395	392	398	418
85°	71	76	73	71	71	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2933.9	2933.9	2933.9	2933.9	2933.9
2.5°	2933.9	2931.1	2925.4	2933.9	2939.5
5°	2922.6	2919.8	2916.9	2931.1	2936.7
7.5°	2902.8	2902.8	2905.6	2919.8	2925.4
10°	2874.6	2877.4	2883.1	2905.6	2911.3
12.5°	2840.7	2846.3	2860.5	2885.9	2897.2
15°	2801.2	2806.8	2826.6	2860.5	2874.6
17.5°	2750.3	2761.6	2789.9	2829.4	2843.5
20°	2693.9	2708.0	2744.7	2789.9	2806.8
22.5°	2631.7	2645.9	2693.9	2741.9	2758.8
25°	2564.0	2580.9	2631.7	2685.4	2708.0
27.5°	2490.6	2510.3	2566.8	2623.3	2645.9
30°	2408.7	2431.3	2490.6	2549.8	2569.6
32.5°	2321.1	2343.7	2411.5	2468.0	2487.7
35°	2233.6	2253.4	2321.1	2380.4	2394.5
37.5°	2134.8	2157.3	2230.8	2281.6	2301.4
40°	2038.7	2061.3	2126.3	2177.1	2194.1
42.5°	1934.3	1956.9	2021.8	2069.8	2083.9
45°	1824.1	1849.6	1908.9	1956.9	1968.2
47.5°	1714.0	1733.8	1795.9	1838.3	1846.7
50°	1598.2	1618.0	1674.5	1716.8	1725.3
52.5°	1476.8	1507.9	1553.1	1584.1	1620.8
55°	1361.0	1375.2	1423.2	1482.5	1465.5
57.5°	1245.3	1253.7	1293.3	1318.7	1324.3
60°	1118.2	1129.5	1160.6	1174.7	1188.8
62.5°	985.5	994.0	1030.7	1044.8	1050.4
65°	858.4	866.9	886.7	900.8	903.6
67.5°	728.5	737.0	753.9	765.2	816.1
70°	609.9	615.6	624.0	646.6	632.5
72.5°	497.0	499.8	508.3	508.3	511.1
75°	389.7	392.5	395.3	392.5	398.1
77.5°	290.8	296.5	299.3	296.5	293.7
80°	209.0	214.6	211.8	206.1	206.1
82.5°	135.5	138.4	135.5	132.7	132.7
85°	70.6	76.2	73.4	70.6	70.6
87.5°	25.4	28.2	31.1	33.9	33.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)