

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: P297979

Luminaire Tested: **D3X-WD-31L83050-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-31L83050-LD5-UNV-22-T1-W2A-3000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2750.0 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

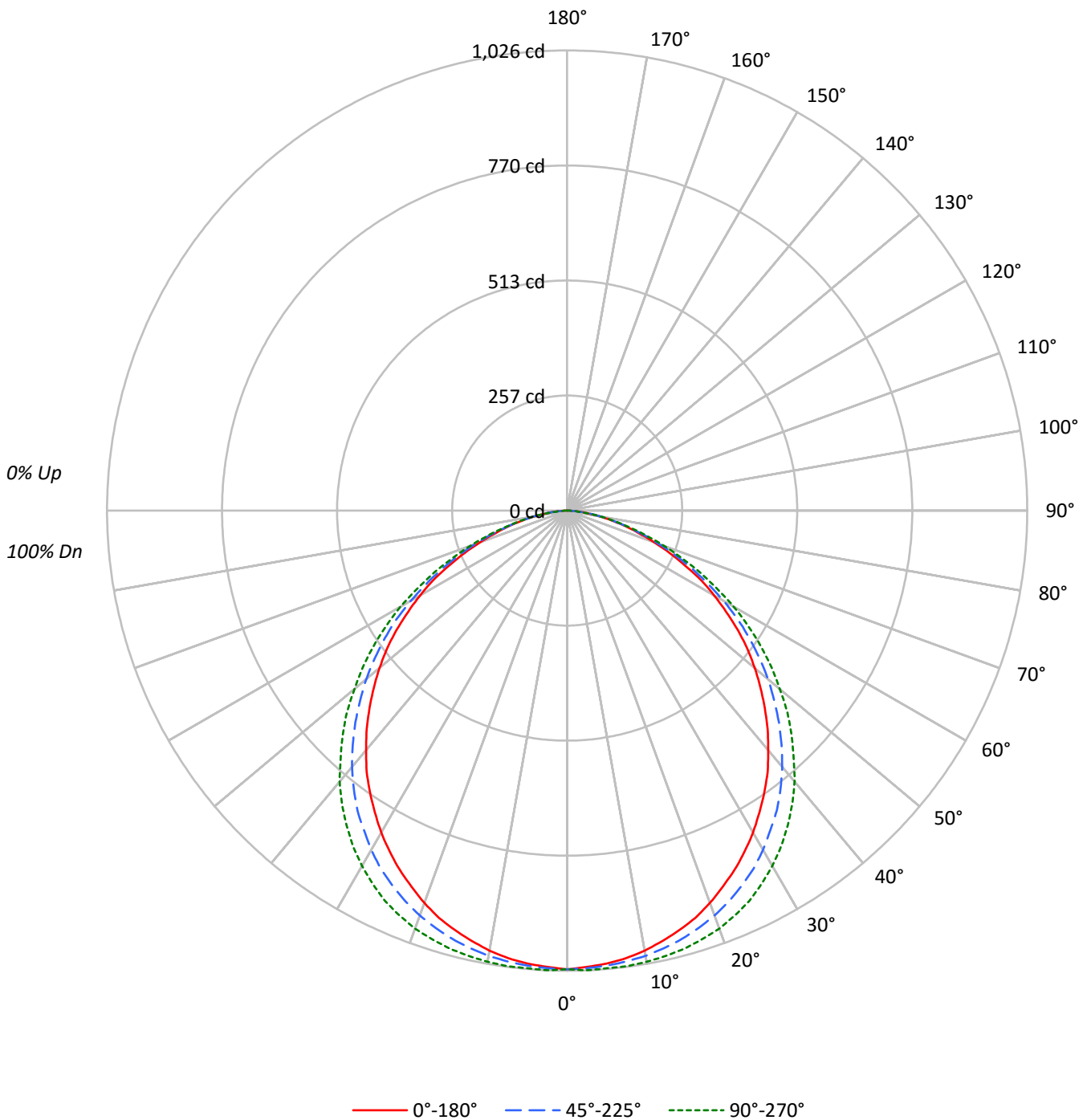
Input Watts (W): 24.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2752	2752	2752
5°	2739	2751	2767
10°	2722	2754	2791
15°	2697	2755	2817
20°	2666	2751	2840
25°	2624	2738	2852
30°	2576	2714	2843
35°	2519	2679	2816
40°	2449	2621	2772
45°	2372	2541	2692
50°	2287	2448	2590
55°	2181	2327	2472
60°	2039	2167	2310
65°	1847	1961	2083
70°	1630	1712	1805
75°	1400	1432	1493
80°	1124	1147	1170
85°	821	732	732



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	3.5
10°-20°	279.2	10.2
20°-30°	424.7	15.4
30°-40°	508.1	18.5
40°-50°	513.7	18.7
50°-60°	442.1	16.1
60°-70°	305.2	11.1
70°-80°	148.0	5.4
80°-90°	32.1	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°	800.9	29.1
0°-40°	1309.0	47.6
0°-60°	2264.7	82.4
0°-90°	2750.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2750.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1023	1023	1023	1023	1023	
5°	1014	1015	1018	1023	1024	96
15°	968	974	989	1004	1011	273
25°	884	894	922	950	961	407
35°	767	780	816	845	857	479
45°	623	635	668	696	708	481
55°	465	472	496	518	527	414
65°	290	295	308	321	327	289
75°	135	132	138	142	144	143
85°	27	27	24	24	24	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1022.8	1022.8	1022.8	1022.8	1022.8
2.5°	1018.4	1018.4	1021.4	1024.3	1025.8
5°	1014.0	1015.4	1018.4	1022.8	1024.3
7.5°	1006.6	1008.0	1014.0	1021.4	1024.3
10°	996.2	999.2	1008.0	1016.9	1021.4
12.5°	982.9	988.8	999.2	1011.0	1016.9
15°	968.1	974.0	988.8	1003.6	1011.0
17.5°	951.8	957.7	975.5	994.7	1002.1
20°	931.1	939.9	960.7	982.9	991.8
22.5°	907.4	919.2	942.9	966.6	977.0
25°	883.7	894.1	922.2	950.3	960.7
27.5°	857.1	868.9	900.0	928.1	938.5
30°	828.9	840.8	873.3	904.4	914.8
32.5°	797.8	812.6	843.7	876.3	888.1
35°	766.8	780.1	815.6	845.2	857.1
37.5°	734.2	746.0	781.6	812.6	824.5
40°	697.2	710.5	746.0	777.1	789.0
42.5°	661.7	675.0	707.5	737.2	747.5
45°	623.2	635.0	667.6	695.7	707.5
47.5°	584.7	598.0	626.1	654.3	666.1
50°	546.2	556.6	584.7	611.3	618.7
52.5°	506.2	515.1	540.3	564.0	574.3
55°	464.8	472.2	495.9	518.1	527.0
57.5°	420.4	429.3	451.5	467.8	478.1
60°	378.9	383.4	402.6	418.9	429.3
62.5°	337.5	339.0	353.8	370.1	376.0
65°	290.1	294.6	307.9	321.2	327.1
67.5°	247.2	251.6	262.0	272.4	276.8
70°	207.2	207.2	217.6	225.0	229.4
72.5°	167.3	168.7	176.1	180.6	185.0
75°	134.7	131.7	137.7	142.1	143.6
77.5°	100.7	99.2	103.6	105.1	108.1
80°	72.5	72.5	74.0	75.5	75.5
82.5°	47.4	47.4	48.8	45.9	44.4
85°	26.6	26.6	23.7	23.7	23.7
87.5°	8.9	8.9	8.9	10.4	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)