

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: P297316

Luminaire Tested: **D3X-WO-80L83050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-80L83050-LD5-UNV-24-T1-W2A-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8466.0 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

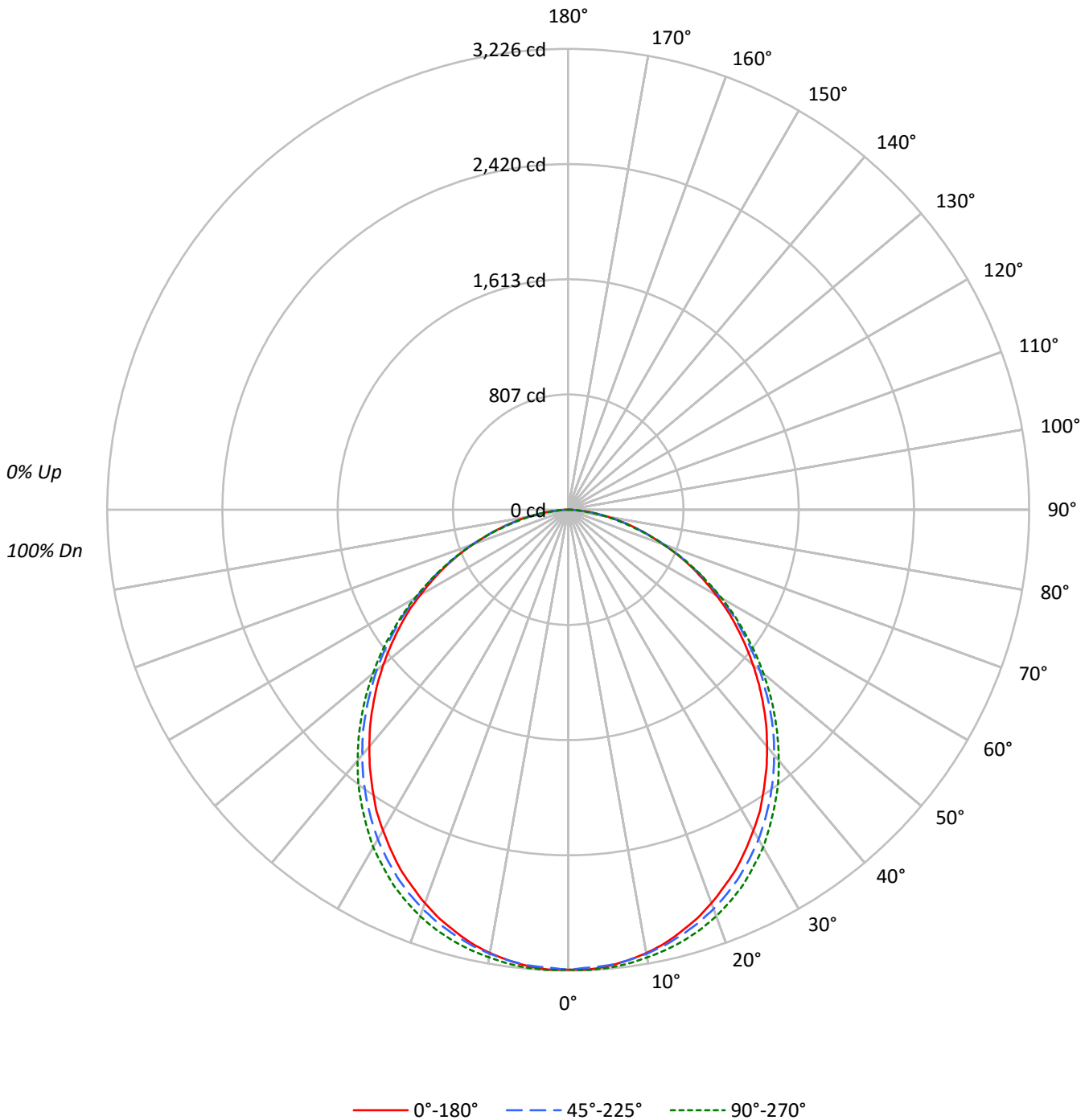
Input Watts (W): 62.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	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	41	39					39			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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	30	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°	4332	4332	4332
5°	4333	4326	4349
10°	4305	4313	4348
15°	4259	4290	4350
20°	4198	4259	4337
25°	4124	4208	4302
30°	4028	4138	4240
35°	3921	4047	4141
40°	3802	3937	4027
45°	3674	3809	3891
50°	3534	3665	3731
55°	3385	3492	3546
60°	3215	3300	3338
65°	3032	3078	3096
70°	2782	2816	2782
75°	2506	2491	2417
80°	2122	2099	2033
85°	1585	1541	1365



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.8	3.6
10°-20°	870.8	10.3
20°-30°	1305.7	15.4
30°-40°	1537.7	18.2
40°-50°	1537.9	18.2
50°-60°	1327.0	15.7
60°-70°	954.8	11.3
70°-80°	506.5	6.0
80°-90°	120.8	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°	2481.4	29.3
0°-40°	4019.0	47.5
0°-60°	6883.9	81.3
0°-90°	8466.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8466.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3220	3220	3220	3220	3220	
5°	3208	3206	3203	3214	3220	304
15°	3057	3066	3080	3111	3123	862
25°	2778	2795	2835	2883	2898	1278
35°	2387	2416	2464	2507	2521	1493
45°	1931	1956	2002	2036	2045	1489
55°	1443	1457	1489	1514	1512	1291
65°	952	955	967	972	972	942
75°	482	476	479	468	465	513
85°	103	103	100	91	88	124
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3219.8	3219.8	3219.8	3219.8	3219.8
2.5°	3222.6	3216.9	3208.4	3219.8	3225.5
5°	3208.4	3205.5	3202.7	3214.1	3219.8
7.5°	3182.7	3185.6	3182.7	3199.8	3205.5
10°	3151.3	3154.2	3157.0	3177.0	3182.7
12.5°	3111.4	3114.3	3122.8	3148.5	3157.0
15°	3057.2	3065.8	3080.0	3111.4	3122.8
17.5°	3000.2	3011.6	3031.6	3068.6	3080.0
20°	2931.7	2946.0	2974.5	3014.4	3028.7
22.5°	2854.7	2869.0	2908.9	2951.7	2966.0
25°	2777.7	2794.8	2834.8	2883.3	2897.5
27.5°	2686.5	2709.3	2752.1	2800.5	2812.0
30°	2592.4	2612.3	2663.7	2709.3	2729.3
32.5°	2498.2	2518.2	2566.7	2612.3	2626.6
35°	2387.0	2415.5	2464.0	2506.8	2521.1
37.5°	2278.7	2304.3	2355.7	2398.4	2412.7
40°	2164.6	2187.4	2241.6	2281.5	2292.9
42.5°	2050.5	2073.3	2127.5	2158.9	2170.3
45°	1930.7	1956.4	2002.0	2036.2	2044.8
47.5°	1810.9	1830.9	1873.7	1905.1	1916.5
50°	1688.3	1708.3	1751.1	1776.7	1782.4
52.5°	1565.7	1579.9	1619.9	1642.7	1651.2
55°	1443.1	1457.3	1488.7	1514.4	1511.5
57.5°	1326.1	1331.8	1363.2	1380.3	1380.3
60°	1194.9	1200.6	1226.3	1237.7	1240.6
62.5°	1072.3	1080.9	1100.8	1103.7	1103.7
65°	952.5	955.4	966.8	972.5	972.5
67.5°	832.7	829.9	841.3	841.3	838.5
70°	707.3	713.0	715.8	710.1	707.3
72.5°	593.2	590.3	590.3	587.5	587.5
75°	482.0	476.3	479.1	467.7	464.9
77.5°	379.3	370.7	367.9	362.2	356.5
80°	273.8	273.8	270.9	265.2	262.4
82.5°	182.5	182.5	179.7	174.0	168.3
85°	102.7	102.7	99.8	91.3	88.4
87.5°	34.2	34.2	34.2	34.2	34.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)