

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: P297774

Luminaire Tested: **D3X-WG-35L93050-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297774
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-35L93050-LD5-UNV-14-T1-W2A-3000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2629.0 lumens
Efficiency: N/A
Efficacy: 76.6 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

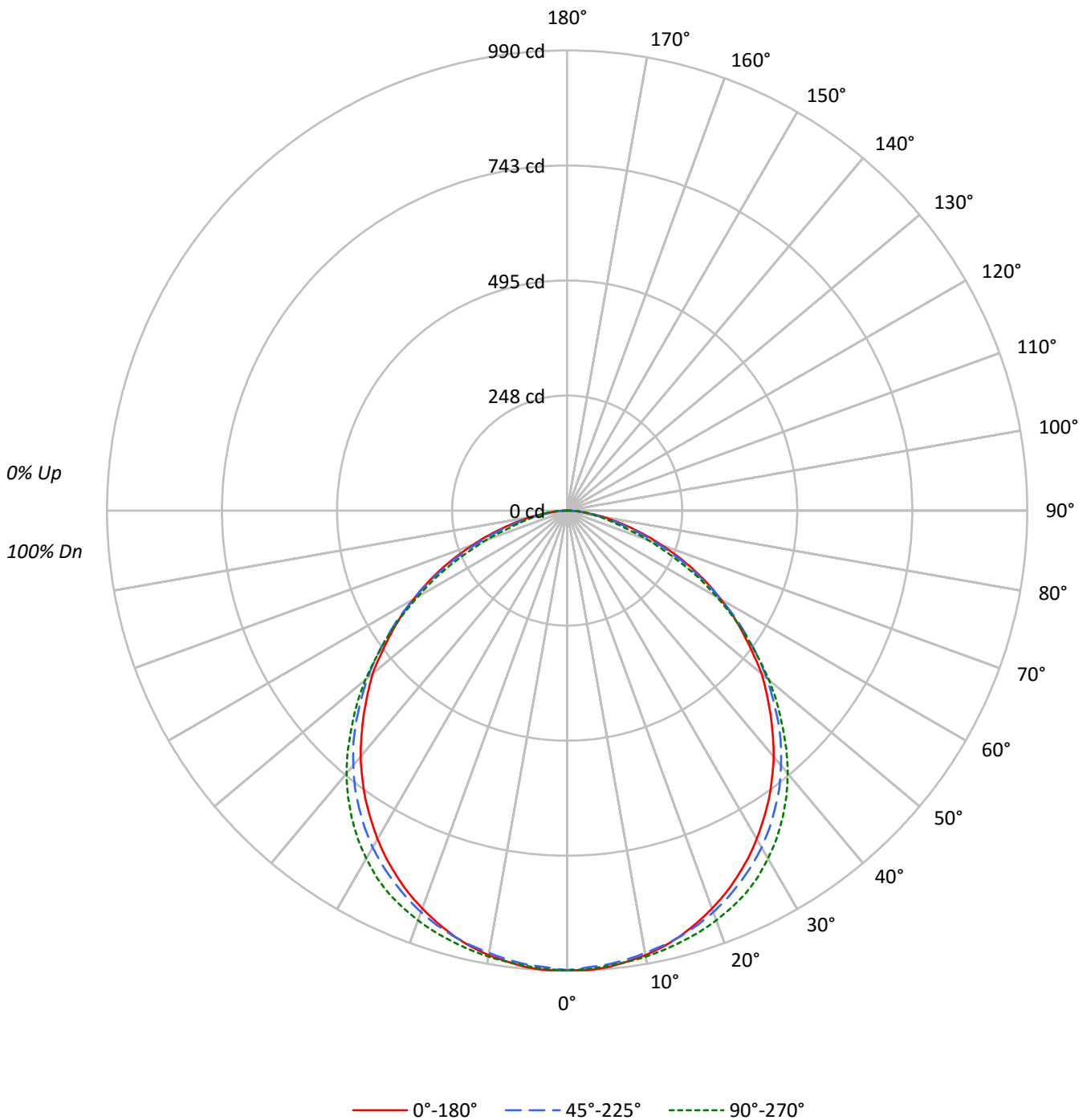
Input Watts (W): 34.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	43	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31					31			
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2661	2661	2661
5°	2665	2649	2658
10°	2654	2641	2663
15°	2637	2640	2673
20°	2609	2633	2687
25°	2576	2618	2698
30°	2535	2601	2685
35°	2487	2564	2653
40°	2428	2515	2594
45°	2353	2443	2492
50°	2289	2348	2372
55°	2173	2217	2206
60°	2056	2056	1999
65°	1909	1864	1759
70°	1692	1618	1462
75°	1467	1332	1125
80°	1203	1038	1020
85°	800	945	1016



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	3.6
10°-20°	268.3	10.2
20°-30°	407.8	15.5
30°-40°	488.3	18.6
40°-50°	492.5	18.7
50°-60°	419.5	16.0
60°-70°	286.9	10.9
70°-80°	137.4	5.2
80°-90°	34.8	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°	769.6	29.3
0°-40°	1257.9	47.8
0°-60°	2170.0	82.5
0°-90°	2629.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2629.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	989	989	989	989	989	
5°	986	985	980	985	984	94
15°	946	944	948	958	959	267
25°	868	869	882	902	909	400
35°	757	760	781	803	808	473
45°	618	623	642	655	655	477
55°	463	466	473	474	470	415
65°	300	294	293	282	276	296
75°	141	139	128	112	108	151
85°	26	28	31	32	33	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	988.7	988.7	988.7	988.7	988.7
2.5°	989.9	988.7	984.0	988.7	987.5
5°	986.4	985.2	980.5	985.2	984.0
7.5°	979.3	978.1	974.6	979.3	979.3
10°	971.1	968.7	966.4	973.4	974.6
12.5°	960.5	958.2	958.2	966.4	967.6
15°	946.4	944.0	947.6	958.2	959.3
17.5°	929.9	928.8	934.6	947.6	949.9
20°	911.1	909.9	919.4	934.6	938.2
22.5°	891.1	891.1	901.7	919.4	924.1
25°	867.6	868.8	881.7	901.7	908.8
27.5°	842.9	845.3	860.6	882.9	888.8
30°	815.9	819.4	837.1	858.2	864.1
32.5°	786.5	790.0	810.0	832.4	838.2
35°	757.1	759.5	780.6	803.0	807.7
37.5°	724.2	727.7	750.1	770.0	774.8
40°	691.3	694.8	716.0	734.8	738.3
42.5°	654.8	659.5	680.7	696.0	698.3
45°	618.4	623.1	641.9	654.8	654.8
47.5°	581.9	584.3	600.8	613.7	612.5
50°	546.7	545.5	560.8	566.7	566.7
52.5°	503.2	506.7	517.3	520.8	517.3
55°	463.2	465.6	472.6	473.8	470.3
57.5°	424.4	423.2	429.1	425.6	420.9
60°	382.1	382.1	382.1	378.6	371.5
62.5°	340.9	338.6	337.4	329.2	325.7
65°	299.8	293.9	292.7	282.2	276.3
67.5°	256.3	253.9	248.1	237.5	226.9
70°	215.1	212.8	205.7	192.8	185.8
72.5°	177.5	175.2	165.8	150.5	141.1
75°	141.1	138.7	128.1	111.7	108.2
77.5°	107.0	105.8	95.2	87.0	85.8
80°	77.6	76.4	67.0	67.0	65.8
82.5°	49.4	49.4	47.0	48.2	49.4
85°	25.9	28.2	30.6	31.7	32.9
87.5°	8.2	12.9	15.3	16.5	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)