

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: P297132

Luminaire Tested: **D3X-WG-31L93050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297132
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-31L93050-LD5-UNV-24-T1-W2A-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2723.0 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

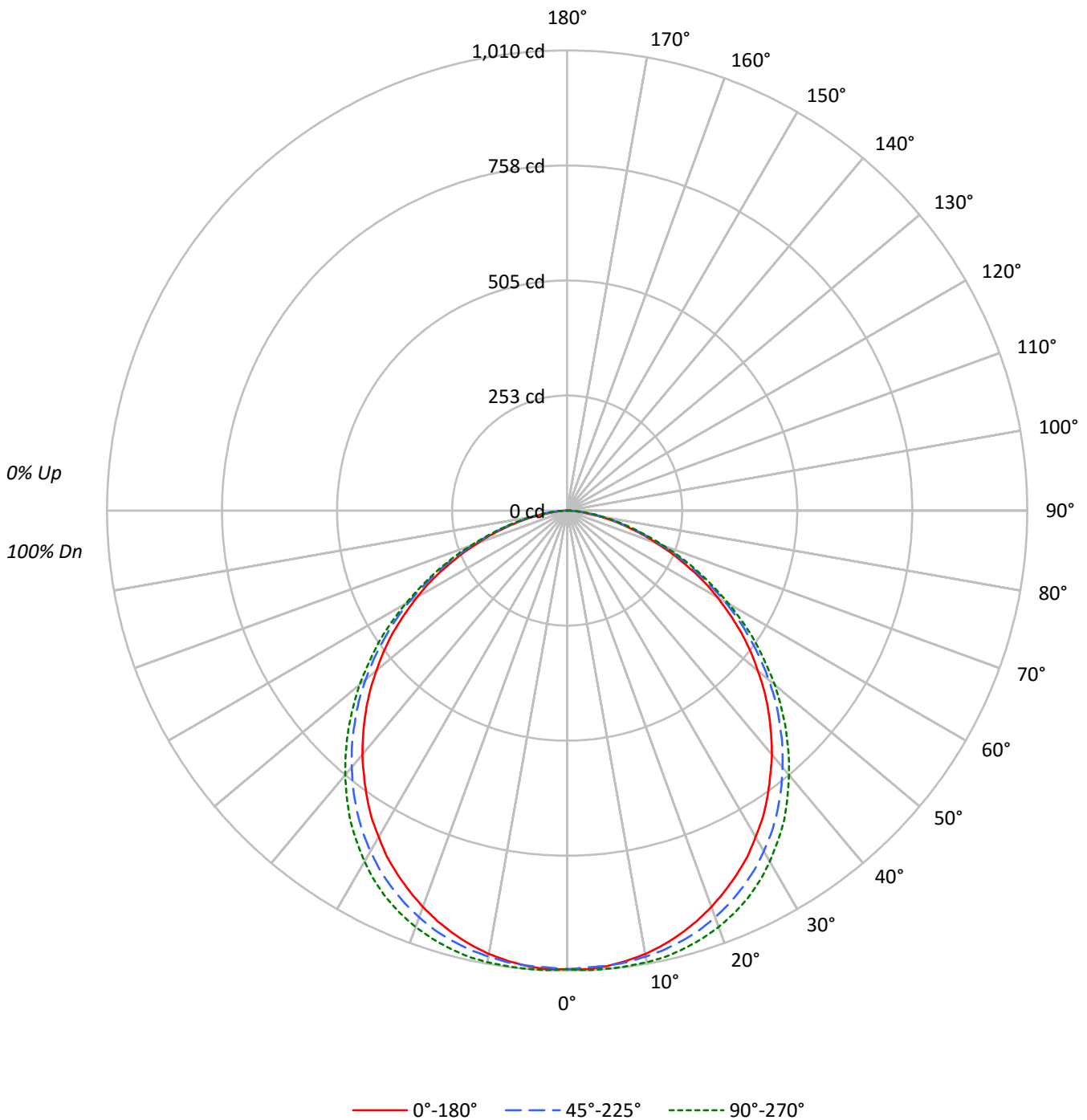
Input Watts (W): 22.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
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	47	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	27	38	32	27	37	31	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1354	1354	1354
5°	1356	1354	1364
10°	1350	1358	1375
15°	1340	1361	1386
20°	1325	1360	1392
25°	1308	1354	1393
30°	1285	1341	1382
35°	1259	1322	1363
40°	1228	1292	1331
45°	1190	1255	1292
50°	1143	1209	1245
55°	1094	1149	1185
60°	1024	1076	1102
65°	935	984	1009
70°	821	864	886
75°	695	730	755
80°	552	604	620
85°	377	452	437



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	3.5
10°-20°	276.1	10.1
20°-30°	419.6	15.4
30°-40°	500.7	18.4
40°-50°	505.7	18.6
50°-60°	435.7	16.0
60°-70°	303.7	11.2
70°-80°	150.5	5.5
80°-90°	35.1	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°	791.4	29.1
0°-40°	1292.2	47.5
0°-60°	2233.6	82.0
0°-90°	2723.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2723.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1007	1007	1007	1007	1007	
5°	1004	1003	1003	1008	1010	95
15°	962	967	977	990	995	271
25°	881	892	912	931	938	406
35°	767	779	805	823	830	479
45°	625	639	659	675	679	482
55°	466	476	490	501	505	416
65°	294	300	309	312	317	292
75°	134	136	140	143	145	144
85°	24	29	29	27	28	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1006.6	1006.6	1006.6	1006.6	1006.6
2.5°	1007.6	1005.7	1003.7	1007.6	1009.6
5°	1003.7	1002.7	1002.7	1007.6	1009.6
7.5°	996.9	996.9	999.8	1006.6	1008.6
10°	988.1	990.1	994.0	1003.7	1006.6
12.5°	976.4	980.3	987.1	998.8	1002.7
15°	961.8	966.6	977.4	990.1	994.9
17.5°	945.2	952.0	965.7	980.3	985.2
20°	925.7	934.5	950.1	966.6	972.5
22.5°	904.2	914.9	932.5	950.1	956.9
25°	880.8	892.5	912.0	930.6	938.4
27.5°	856.4	868.1	889.6	908.1	915.9
30°	827.2	840.8	863.2	882.8	889.6
32.5°	798.9	812.5	835.9	853.5	860.3
35°	766.7	779.4	804.7	823.3	830.1
37.5°	732.5	747.2	771.6	788.1	794.0
40°	699.4	712.1	735.5	752.1	757.9
42.5°	662.3	676.0	699.4	714.0	718.9
45°	625.2	638.9	659.4	675.0	678.9
47.5°	587.2	599.9	620.4	633.0	637.0
50°	546.2	557.9	577.4	590.1	595.0
52.5°	507.2	517.9	534.5	545.3	548.2
55°	466.3	476.0	489.7	501.4	505.3
57.5°	422.4	433.1	445.8	455.5	458.4
60°	380.4	389.2	399.9	408.7	409.7
62.5°	339.4	343.3	353.1	360.9	361.9
65°	293.6	299.5	309.2	312.1	317.0
67.5°	251.7	255.6	263.4	267.3	271.2
70°	208.7	211.7	219.5	224.3	225.3
72.5°	171.7	172.6	178.5	182.4	183.4
75°	133.6	135.6	140.5	143.4	145.3
77.5°	101.4	103.4	107.3	109.2	109.2
80°	71.2	74.1	78.0	79.0	80.0
82.5°	45.8	49.7	52.7	53.6	51.7
85°	24.4	29.3	29.3	27.3	28.3
87.5°	8.8	10.7	11.7	12.7	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)