

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: P298025

Luminaire Tested: **D3X-WD-31L82765-LD5-UNV-22-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298025
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-31L82765-LD5-UNV-22-T1-W2A-6500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3042.0 lumens
Efficiency: N/A
Efficacy: 118.8 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

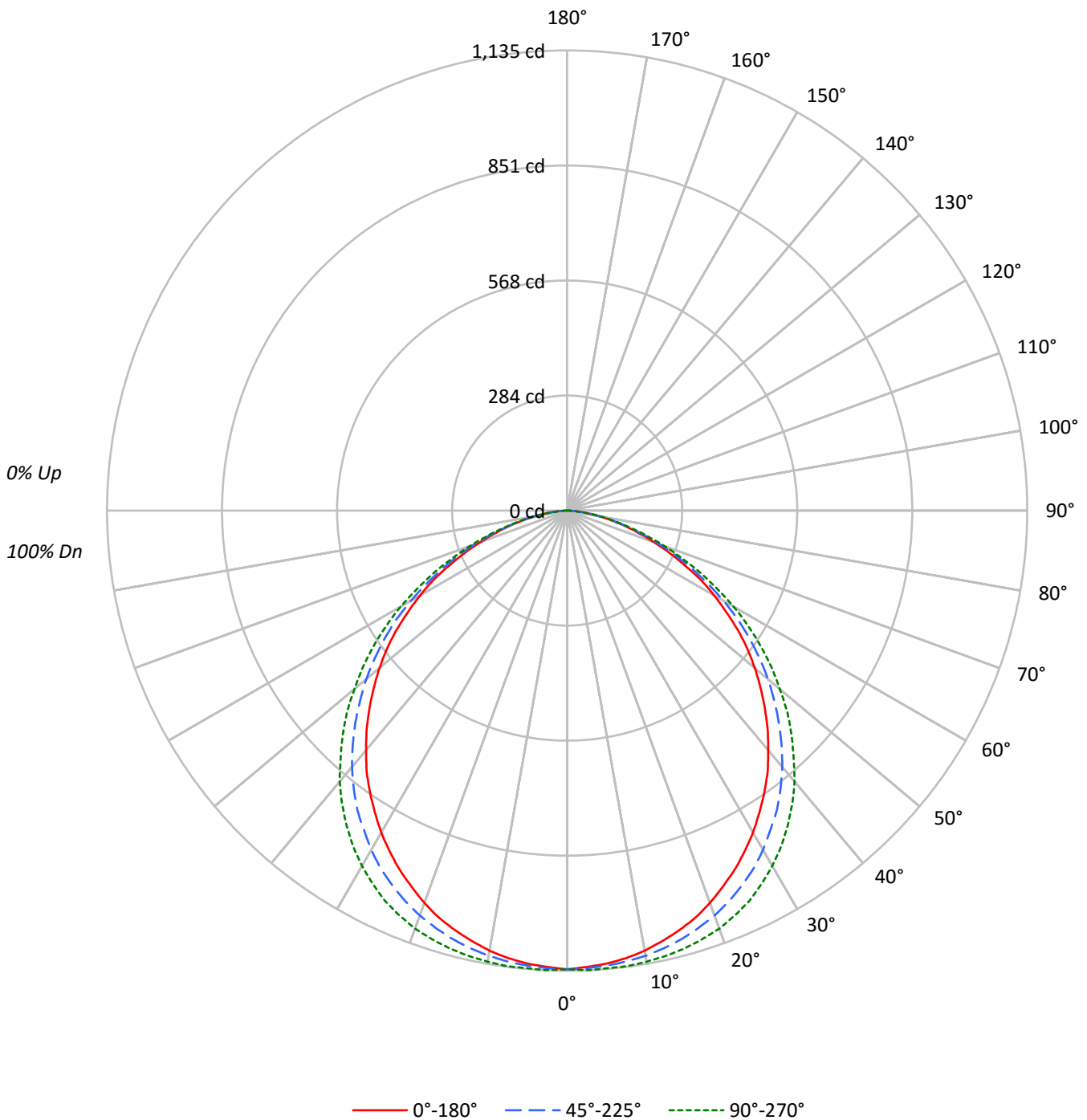
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	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	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	31	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°	3045	3045	3045
5°	3030	3043	3061
10°	3011	3047	3087
15°	2983	3047	3115
20°	2949	3043	3142
25°	2902	3029	3155
30°	2849	3002	3144
35°	2786	2964	3115
40°	2709	2899	3066
45°	2623	2810	2979
50°	2529	2708	2865
55°	2412	2573	2735
60°	2256	2397	2555
65°	2043	2169	2304
70°	1803	1894	1997
75°	1549	1583	1651
80°	1243	1269	1294
85°	911	809	809



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	3.5
10°-20°	308.9	10.2
20°-30°	469.8	15.4
30°-40°	562.1	18.5
40°-50°	568.2	18.7
50°-60°	489.0	16.1
60°-70°	337.6	11.1
70°-80°	163.7	5.4
80°-90°	35.5	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°	885.9	29.1
0°-40°	1448.0	47.6
0°-60°	2505.2	82.4
0°-90°	3042.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3042.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1131	1131	1131	1131	1131	
5°	1122	1123	1126	1131	1133	106
15°	1071	1077	1094	1110	1118	302
25°	978	989	1020	1051	1063	450
35°	848	863	902	935	948	530
45°	689	702	738	770	783	532
55°	514	522	548	573	583	458
65°	321	326	341	355	362	319
75°	149	146	152	157	159	158
85°	30	30	26	26	26	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1131.4	1131.4	1131.4	1131.4	1131.4
2.5°	1126.5	1126.5	1129.8	1133.1	1134.7
5°	1121.6	1123.3	1126.5	1131.4	1133.1
7.5°	1113.4	1115.1	1121.6	1129.8	1133.1
10°	1102.0	1105.2	1115.1	1124.9	1129.8
12.5°	1087.2	1093.8	1105.2	1118.3	1124.9
15°	1070.9	1077.4	1093.8	1110.2	1118.3
17.5°	1052.8	1059.4	1079.0	1100.3	1108.5
20°	1029.9	1039.8	1062.7	1087.2	1097.1
22.5°	1003.7	1016.8	1043.0	1069.2	1080.7
25°	977.5	989.0	1020.1	1051.2	1062.7
27.5°	948.1	961.2	995.5	1026.7	1038.1
30°	916.9	930.0	966.1	1000.5	1011.9
32.5°	882.6	898.9	933.3	969.3	982.4
35°	848.2	862.9	902.2	935.0	948.1
37.5°	812.2	825.3	864.5	898.9	912.0
40°	771.2	786.0	825.3	859.6	872.7
42.5°	731.9	746.7	782.7	815.4	826.9
45°	689.3	702.4	738.5	769.6	782.7
47.5°	646.8	661.5	692.6	723.7	736.8
50°	604.2	615.7	646.8	676.2	684.4
52.5°	560.0	569.8	597.7	623.9	635.3
55°	514.1	522.3	548.5	573.1	582.9
57.5°	465.0	474.8	499.4	517.4	528.9
60°	419.2	424.1	445.4	463.4	474.8
62.5°	373.3	375.0	391.3	409.4	415.9
65°	320.9	325.8	340.6	355.3	361.9
67.5°	273.4	278.4	289.8	301.3	306.2
70°	229.2	229.2	240.7	248.9	253.8
72.5°	185.0	186.7	194.9	199.8	204.7
75°	149.0	145.7	152.3	157.2	158.8
77.5°	111.3	109.7	114.6	116.3	119.5
80°	80.2	80.2	81.9	83.5	83.5
82.5°	52.4	52.4	54.0	50.8	49.1
85°	29.5	29.5	26.2	26.2	26.2
87.5°	9.8	9.8	9.8	11.5	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)