

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: P297815

Luminaire Tested: **D3X-WG-35L92765-LD5-UNV-14-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297815
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-35L92765-LD5-UNV-14-T1-W2A-4500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3062.0 lumens
Efficiency: N/A
Efficacy: 89.5 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

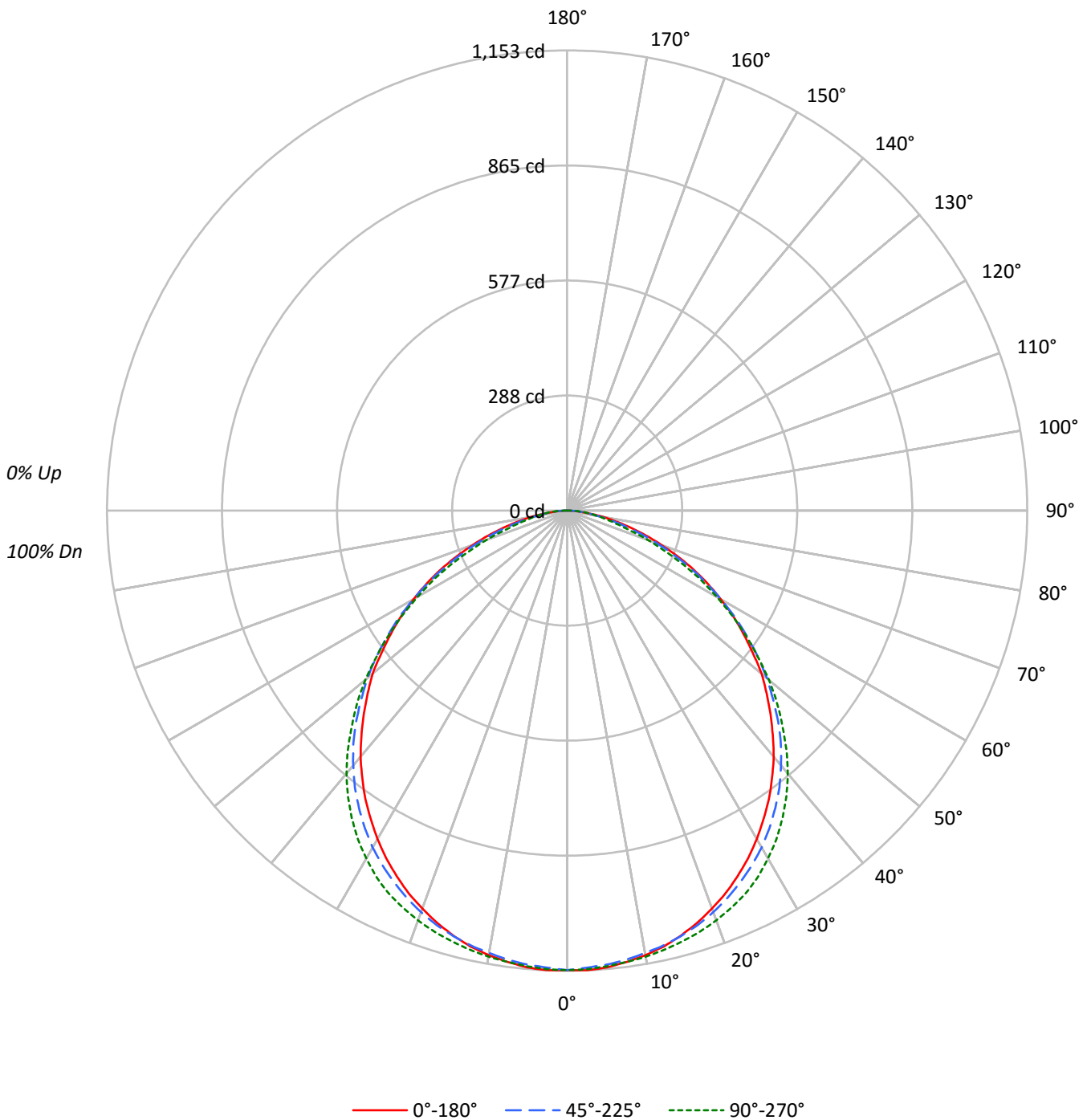
Input Watts (W): 34.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3099	3099	3099
5°	3103	3085	3096
10°	3090	3075	3102
15°	3071	3075	3113
20°	3039	3066	3129
25°	3000	3049	3143
30°	2953	3029	3127
35°	2897	2987	3090
40°	2828	2929	3021
45°	2741	2845	2903
50°	2665	2734	2763
55°	2531	2582	2570
60°	2395	2395	2329
65°	2223	2171	2049
70°	1972	1885	1702
75°	1708	1552	1310
80°	1401	1209	1189
85°	929	1099	1183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.9	3.6
10°-20°	312.5	10.2
20°-30°	475.0	15.5
30°-40°	568.7	18.6
40°-50°	573.6	18.7
50°-60°	488.6	16.0
60°-70°	334.1	10.9
70°-80°	160.0	5.2
80°-90°	40.5	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°	896.4	29.3
0°-40°	1465.1	47.8
0°-60°	2527.4	82.5
0°-90°	3062.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3062.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1152	1152	1152	1152	1152	
5°	1149	1148	1142	1148	1146	109
15°	1102	1100	1104	1116	1117	311
25°	1010	1012	1027	1050	1058	466
35°	882	885	909	935	941	551
45°	720	726	748	763	763	556
55°	540	542	550	552	548	483
65°	349	342	341	329	322	344
75°	164	162	149	130	126	176
85°	30	33	36	37	38	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1151.6	1151.6	1151.6	1151.6	1151.6
2.5°	1152.9	1151.6	1146.1	1151.6	1150.2
5°	1148.8	1147.5	1142.0	1147.5	1146.1
7.5°	1140.6	1139.2	1135.1	1140.6	1140.6
10°	1131.0	1128.3	1125.5	1133.8	1135.1
12.5°	1118.7	1116.0	1116.0	1125.5	1126.9
15°	1102.3	1099.5	1103.6	1116.0	1117.3
17.5°	1083.1	1081.7	1088.6	1103.6	1106.4
20°	1061.2	1059.8	1070.8	1088.6	1092.7
22.5°	1037.9	1037.9	1050.2	1070.8	1076.3
25°	1010.5	1011.9	1027.0	1050.2	1058.5
27.5°	981.8	984.5	1002.3	1028.3	1035.2
30°	950.3	954.4	974.9	999.6	1006.4
32.5°	916.0	920.2	943.4	969.4	976.3
35°	881.8	884.6	909.2	935.2	940.7
37.5°	843.5	847.6	873.6	896.9	902.4
40°	805.1	809.2	833.9	855.8	859.9
42.5°	762.7	768.2	792.8	810.6	813.3
45°	720.2	725.7	747.6	762.7	762.7
47.5°	677.8	680.5	699.7	714.8	713.4
50°	636.7	635.3	653.1	660.0	660.0
52.5°	586.1	590.2	602.5	606.6	602.5
55°	539.5	542.2	550.4	551.8	547.7
57.5°	494.3	492.9	499.8	495.7	490.2
60°	445.0	445.0	445.0	440.9	432.7
62.5°	397.1	394.4	393.0	383.4	379.3
65°	349.2	342.3	340.9	328.6	321.8
67.5°	298.5	295.8	288.9	276.6	264.3
70°	250.6	247.8	239.6	224.6	216.3
72.5°	206.8	204.0	193.1	175.3	164.3
75°	164.3	161.6	149.3	130.1	126.0
77.5°	124.6	123.2	110.9	101.3	100.0
80°	90.4	89.0	78.0	78.0	76.7
82.5°	57.5	57.5	54.8	56.1	57.5
85°	30.1	32.9	35.6	37.0	38.3
87.5°	9.6	15.1	17.8	19.2	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)