

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: P298028

Luminaire Tested: **D3X-WD-35L82765-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298028
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-35L82765-LD5-UNV-22-T1-W2A-3500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3199.0 lumens
Efficiency: N/A
Efficacy: 114.3 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

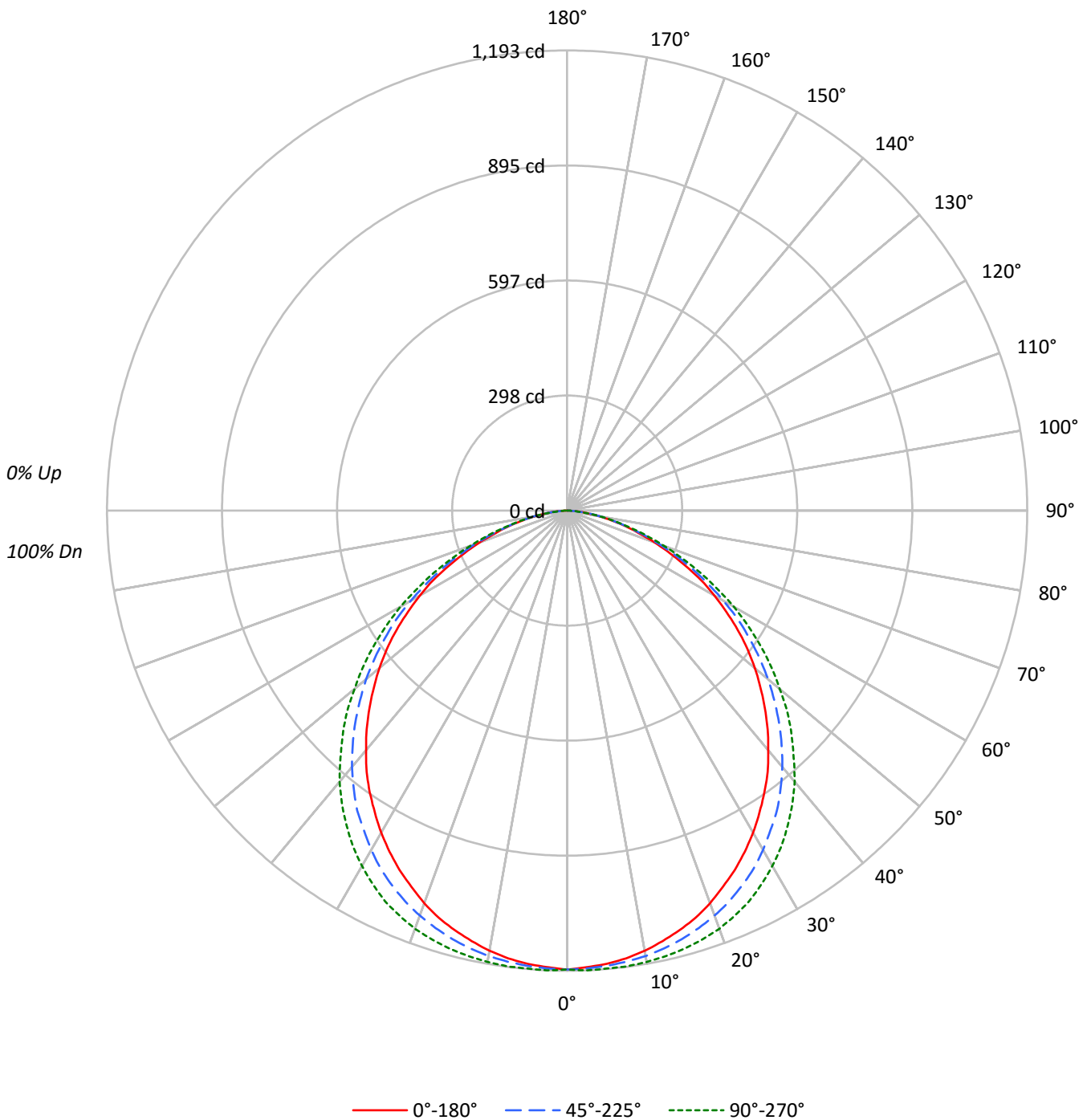
Input Watts (W): 28
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3202	3202	3202
5°	3186	3200	3219
10°	3166	3204	3246
15°	3137	3204	3277
20°	3102	3200	3304
25°	3052	3185	3318
30°	2996	3157	3306
35°	2930	3117	3275
40°	2849	3048	3224
45°	2759	2955	3132
50°	2660	2848	3013
55°	2537	2706	2876
60°	2372	2521	2688
65°	2149	2281	2423
70°	1897	1991	2100
75°	1629	1665	1736
80°	1308	1334	1361
85°	957	852	852



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.8	3.5
10°-20°	324.8	10.2
20°-30°	494.0	15.4
30°-40°	591.1	18.5
40°-50°	597.6	18.7
50°-60°	514.2	16.1
60°-70°	355.0	11.1
70°-80°	172.2	5.4
80°-90°	37.3	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°	931.6	29.1
0°-40°	1522.7	47.6
0°-60°	2634.5	82.4
0°-90°	3199.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3199.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1190	1190	1190	1190	1190	
5°	1180	1181	1185	1190	1192	112
15°	1126	1133	1150	1168	1176	318
25°	1028	1040	1073	1106	1118	473
35°	892	907	949	983	997	558
45°	725	739	777	809	823	559
55°	541	549	577	603	613	482
65°	338	343	358	374	380	336
75°	157	153	160	165	167	166
85°	31	31	28	28	28	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1189.8	1189.8	1189.8	1189.8	<i>1189.8</i>
2.5°	<i>1184.7</i>	<i>1184.7</i>	<i>1188.1</i>	<i>1191.6</i>	<i>1193.3</i>
5°	1179.5	1181.2	1184.7	1189.8	<i>1191.6</i>
7.5°	1170.9	1172.6	1179.5	1188.1	<i>1191.6</i>
10°	1158.8	1162.3	1172.6	1183.0	<i>1188.1</i>
12.5°	1143.3	1150.2	1162.3	1176.1	<i>1183.0</i>
15°	1126.1	1133.0	1150.2	1167.5	<i>1176.1</i>
17.5°	1107.2	1114.1	1134.7	1157.1	<i>1165.7</i>
20°	1083.1	1093.4	1117.5	1143.3	<i>1153.7</i>
22.5°	1055.5	1069.3	1096.9	1124.4	<i>1136.5</i>
25°	1028.0	1040.0	1072.8	1105.5	<i>1117.5</i>
27.5°	997.0	1010.8	1046.9	1079.6	<i>1091.7</i>
30°	964.3	978.0	1015.9	1052.1	<i>1064.1</i>
32.5°	928.1	945.3	981.5	1019.4	<i>1033.1</i>
35°	891.9	907.4	948.8	983.2	<i>997.0</i>
37.5°	854.1	867.8	909.2	945.3	<i>959.1</i>
40°	811.0	826.5	867.8	904.0	<i>917.8</i>
42.5°	769.7	785.2	823.1	857.5	<i>869.6</i>
45°	724.9	738.7	776.6	809.3	<i>823.1</i>
47.5°	680.2	695.7	728.4	761.1	<i>774.9</i>
50°	635.4	647.4	680.2	711.1	<i>719.8</i>
52.5°	588.9	599.2	628.5	656.0	<i>668.1</i>
55°	540.7	549.3	576.8	602.7	<i>613.0</i>
57.5°	489.0	499.4	525.2	544.1	<i>556.2</i>
60°	440.8	446.0	468.4	487.3	<i>499.4</i>
62.5°	392.6	394.3	411.5	430.5	<i>437.4</i>
65°	337.5	342.7	358.2	373.7	<i>380.5</i>
67.5°	287.6	292.7	304.8	316.8	<i>322.0</i>
70°	241.1	241.1	253.1	261.7	<i>266.9</i>
72.5°	194.6	196.3	204.9	210.1	<i>215.2</i>
75°	156.7	153.3	160.1	165.3	<i>167.0</i>
77.5°	117.1	115.4	120.5	122.3	<i>125.7</i>
80°	84.4	84.4	86.1	87.8	<i>87.8</i>
82.5°	55.1	55.1	56.8	53.4	<i>51.7</i>
85°	31.0	31.0	27.6	27.6	<i>27.6</i>
87.5°	10.3	10.3	10.3	12.1	<i>10.3</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)