

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: P297749

Luminaire Tested: **D3X-WG-35L82765-LD5-UNV-14-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297749
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-35L82765-LD5-UNV-14-T1-W2A-6500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3532.0 lumens
Efficiency: N/A
Efficacy: 100.6 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

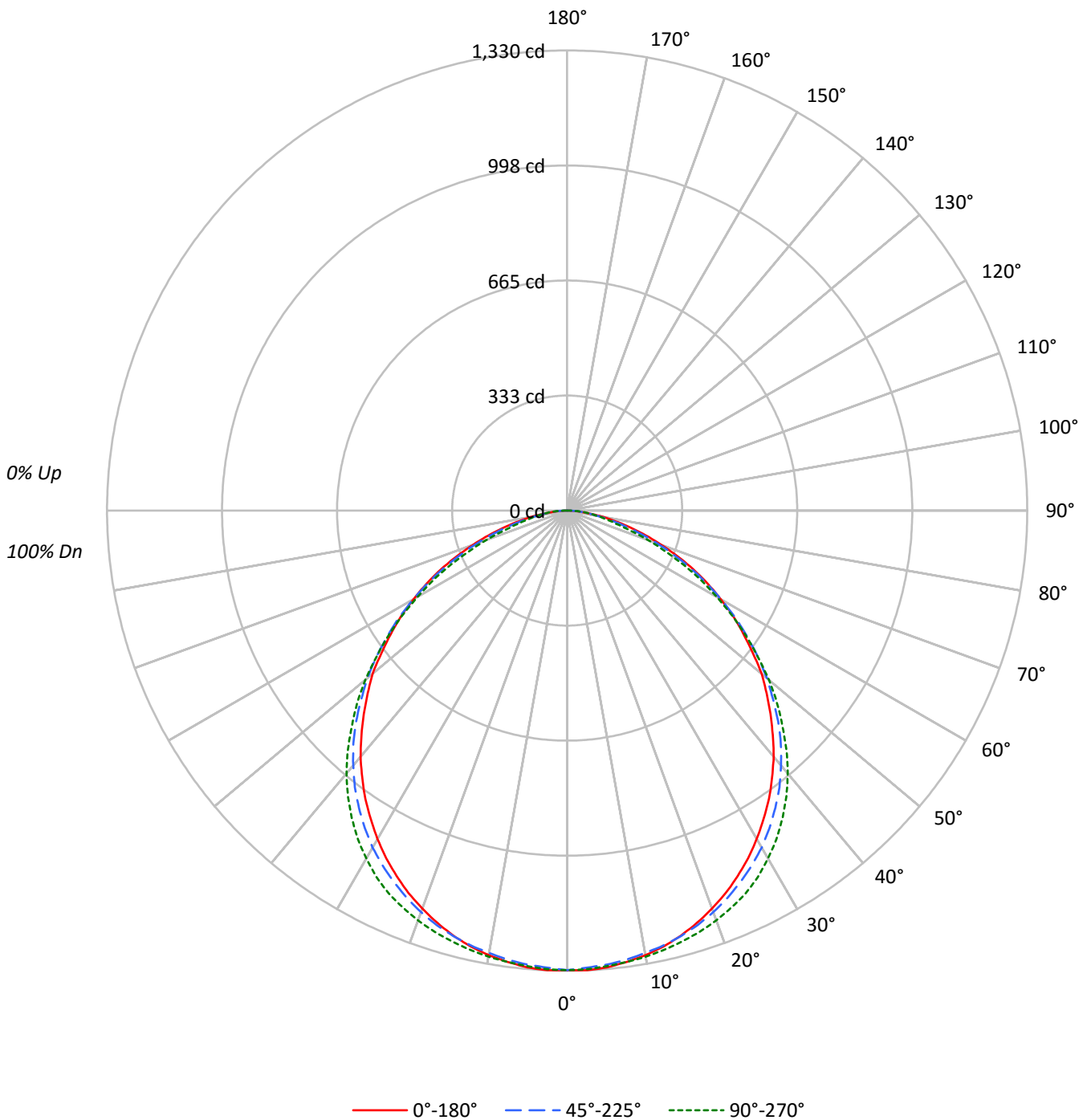
Input Watts (W): 35.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3574	3574	3574
5°	3580	3558	3571
10°	3565	3548	3578
15°	3542	3546	3590
20°	3505	3537	3609
25°	3461	3517	3625
30°	3406	3494	3607
35°	3342	3445	3565
40°	3262	3379	3484
45°	3162	3282	3348
50°	3075	3154	3187
55°	2920	2979	2964
60°	2763	2763	2686
65°	2565	2504	2364
70°	2274	2175	1964
75°	1970	1790	1511
80°	1615	1395	1370
85°	1071	1269	1365



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.6	3.6
10°-20°	360.5	10.2
20°-30°	547.9	15.5
30°-40°	656.0	18.6
40°-50°	661.7	18.7
50°-60°	563.6	16.0
60°-70°	385.4	10.9
70°-80°	184.5	5.2
80°-90°	46.7	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°	1034.0	29.3
0°-40°	1690.0	47.8
0°-60°	2915.3	82.5
0°-90°	3532.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3532.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1328	1328	1328	1328	1328	
5°	1325	1324	1317	1324	1322	126
15°	1272	1268	1273	1287	1289	359
25°	1166	1167	1185	1211	1221	537
35°	1017	1020	1049	1079	1085	635
45°	831	837	862	880	880	641
55°	622	626	635	636	632	557
65°	403	395	393	379	371	397
75°	190	186	172	150	145	202
85°	35	38	41	43	44	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1328.3	1328.3	1328.3	1328.3	1328.3
2.5°	1329.9	1328.3	1322.0	1328.3	1326.7
5°	1325.2	1323.6	1317.3	1323.6	1322.0
7.5°	1315.7	1314.1	1309.4	1315.7	1315.7
10°	1304.6	1301.5	1298.3	1307.8	1309.4
12.5°	1290.4	1287.3	1287.3	1298.3	1299.9
15°	1271.5	1268.3	1273.0	1287.3	1288.8
17.5°	1249.3	1247.8	1255.7	1273.0	1276.2
20°	1224.1	1222.5	1235.1	1255.7	1260.4
22.5°	1197.2	1197.2	1211.4	1235.1	1241.4
25°	1165.6	1167.2	1184.6	1211.4	1220.9
27.5°	1132.5	1135.6	1156.2	1186.2	1194.1
30°	1096.1	1100.9	1124.6	1153.0	1160.9
32.5°	1056.7	1061.4	1088.2	1118.3	1126.1
35°	1017.2	1020.3	1048.8	1078.8	1085.1
37.5°	972.9	977.7	1007.7	1034.5	1040.9
40°	928.7	933.5	961.9	987.2	991.9
42.5°	879.8	886.1	914.5	935.0	938.2
45°	830.8	837.1	862.4	879.8	879.8
47.5°	781.8	785.0	807.1	824.5	822.9
50°	734.4	732.9	753.4	761.3	761.3
52.5°	676.0	680.7	695.0	699.7	695.0
55°	622.3	625.5	634.9	636.5	631.8
57.5°	570.2	568.6	576.5	571.8	565.4
60°	513.3	513.3	513.3	508.6	499.1
62.5°	458.0	454.9	453.3	442.2	437.5
65°	402.8	394.9	393.3	379.1	371.2
67.5°	344.3	341.2	333.3	319.0	304.8
70°	289.0	285.9	276.4	259.0	249.6
72.5°	238.5	235.3	222.7	202.2	189.5
75°	189.5	186.4	172.2	150.0	145.3
77.5°	143.7	142.2	127.9	116.9	115.3
80°	104.2	102.7	90.0	90.0	88.4
82.5°	66.3	66.3	63.2	64.8	66.3
85°	34.7	37.9	41.1	42.6	44.2
87.5°	11.1	17.4	20.5	22.1	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)