

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: P384339

Luminaire Tested: **24ID-30-L835-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-68)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-30-L835-CFD2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

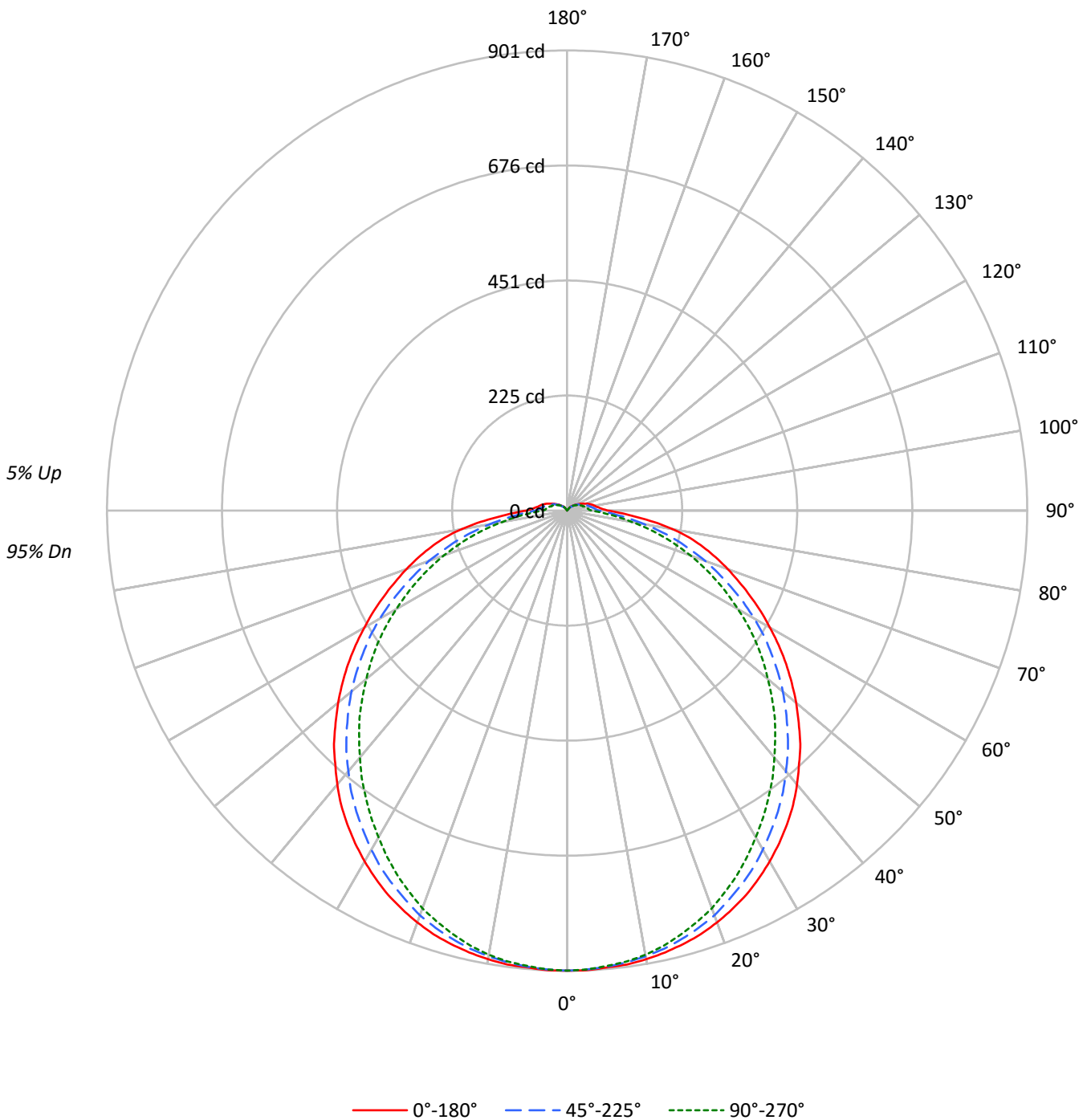
Lumens per Lamp: N/A
Luminaire Lumens: 2921.7 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): NR
Input Current (A_{in}): 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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	106	101	96	92	103	98	94	90	93	90	86	88	85	83	84	81	79	77
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66	63
3	87	76	68	61	84	74	67	60	71	64	58	67	62	57	64	59	55	53
4	80	68	58	51	77	66	57	51	63	55	50	60	53	48	57	51	47	45
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41	38
6	68	54	45	38	65	53	44	38	50	43	37	48	42	36	46	40	36	33
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	32	30
8	58	45	36	30	56	44	35	30	42	35	29	40	34	29	39	33	28	26
9	54	41	33	27	53	40	32	27	39	31	26	37	31	26	36	30	25	24
10	51	38	30	24	50	37	29	24	36	29	24	34	28	23	33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1212	1212	1212
5°	1208	1201	1200
10°	1210	1192	1189
15°	1210	1182	1171
20°	1210	1170	1151
25°	1209	1152	1125
30°	1203	1133	1095
35°	1198	1113	1066
40°	1188	1090	1036
45°	1180	1067	1010
50°	1167	1044	977
55°	1159	1016	949
60°	1151	987	908
65°	1155	947	868
70°	1181	910	821
75°	1240	859	760
80°	1321	791	682
85°	1388	747	629



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.3	2.9
10°-20°	245.2	8.4
20°-30°	372.4	12.7
30°-40°	449.8	15.4
40°-50°	470.8	16.1
50°-60°	436.8	15.0
60°-70°	353.8	12.1
70°-80°	238.8	8.2
80°-90°	115.4	3.9
90°-100°	58.0	2.0
100°-110°	42.2	1.4
110°-120°	28.2	1.0
120°-130°	16.3	0.6
130°-140°	8.2	0.3
140°-150°	0.6	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	702.8	24.1
0°-40°	1152.6	39.4
0°-60°	2060.1	70.5
0°-90°	2768.1	94.7
90°-120°	128.4	4.4
90°-150°	153.6	5.3
90°-180°	154.0	5.3
0°-180°	2921.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	901	901	901	901	901	
5°	898	896	896	895	895	86
15°	879	874	868	862	860	248
25°	830	823	808	793	787	382
35°	750	740	720	697	687	469
45°	646	634	610	585	575	497
55°	523	512	488	464	453	468
65°	395	380	354	335	321	392
75°	276	248	220	204	192	290
85°	133	115	97	88	80	125
90°	80	72	62	56	47	45
95°	63	59	53	47	41	50
105°	47	44	40	35	32	50
115°	32	30	30	25	25	32
125°	21	18	19	16	18	18
135°	12	10	10	10	12	9
145°	0	0	0	0	0	1
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	900.8	900.8	900.8	900.8	900.8
2.5°	900.8	899.3	899.3	899.3	899.3
5°	897.9	896.4	896.4	894.9	894.9
7.5°	896.4	893.4	892.0	890.5	890.5
10°	892.0	889.0	886.1	883.1	883.1
12.5°	886.1	883.1	878.7	872.8	872.8
15°	878.7	874.3	868.4	862.5	859.5
17.5°	869.9	865.4	856.6	847.7	844.8
20°	858.1	852.2	843.3	831.5	828.6
22.5°	844.8	838.9	825.6	813.8	807.9
25°	830.0	822.7	807.9	793.2	787.3
27.5°	812.4	805.0	788.8	771.1	763.7
30°	793.2	784.3	766.7	747.5	738.6
32.5°	772.5	762.2	743.1	722.4	713.6
35°	750.4	740.1	719.5	697.4	687.0
37.5°	726.8	716.5	694.4	670.8	660.5
40°	700.3	690.0	666.4	642.8	631.0
42.5°	672.3	663.4	639.9	614.8	603.0
45°	645.8	634.0	610.4	585.3	575.0
47.5°	614.8	605.9	580.9	555.8	544.0
50°	585.3	575.0	551.4	526.3	513.1
52.5°	554.3	545.5	520.4	495.4	483.6
55°	523.4	511.6	488.0	464.4	452.6
57.5°	491.0	480.6	457.0	434.9	420.2
60°	458.5	448.2	423.1	402.5	386.3
62.5°	427.6	415.8	389.2	367.1	353.8
65°	395.1	380.4	353.8	334.7	321.4
67.5°	364.2	346.5	319.9	302.2	289.0
70°	334.7	314.0	287.5	269.8	256.5
72.5°	305.2	280.1	252.1	235.9	224.1
75°	275.7	247.7	219.7	203.5	191.7
77.5°	246.2	213.8	185.8	172.5	160.7
80°	210.8	179.9	153.3	141.5	129.7
82.5°	171.0	146.0	123.8	112.0	103.2
85°	132.7	115.0	97.3	88.5	79.6
87.5°	103.2	89.9	76.7	69.3	61.9
90°	79.6	72.2	61.9	56.0	47.2
92.5°	69.3	63.4	56.0	50.1	42.8
95°	63.4	59.0	53.1	47.2	41.3
97.5°	57.5	54.6	48.7	44.2	38.3
100°	54.6	50.1	45.7	41.3	36.9
102.5°	51.6	47.2	42.8	38.3	35.4
105°	47.2	44.2	39.8	35.4	32.4
107.5°	44.2	39.8	36.9	32.4	31.0
110°	39.8	36.9	33.9	31.0	29.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	35.4	33.9	31.0	28.0	26.5
115°	32.4	29.5	29.5	25.1	25.1
117.5°	29.5	26.5	26.5	23.6	23.6
120°	25.1	23.6	23.6	20.6	20.6
122.5°	22.1	20.6	20.6	19.2	19.2
125°	20.6	17.7	19.2	16.2	17.7
127.5°	17.7	16.2	16.2	14.7	16.2
130°	14.7	13.3	13.3	13.3	14.7
132.5°	13.3	11.8	11.8	11.8	13.3
135°	11.8	10.3	10.3	10.3	11.8
137.5°	10.3	8.8	7.4	8.8	10.3
140°	8.8	7.4	5.9	7.4	8.8
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)