

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: P384677

Luminaire Tested: **24ID-30-L850-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-69)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-30-L850-CFD3
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

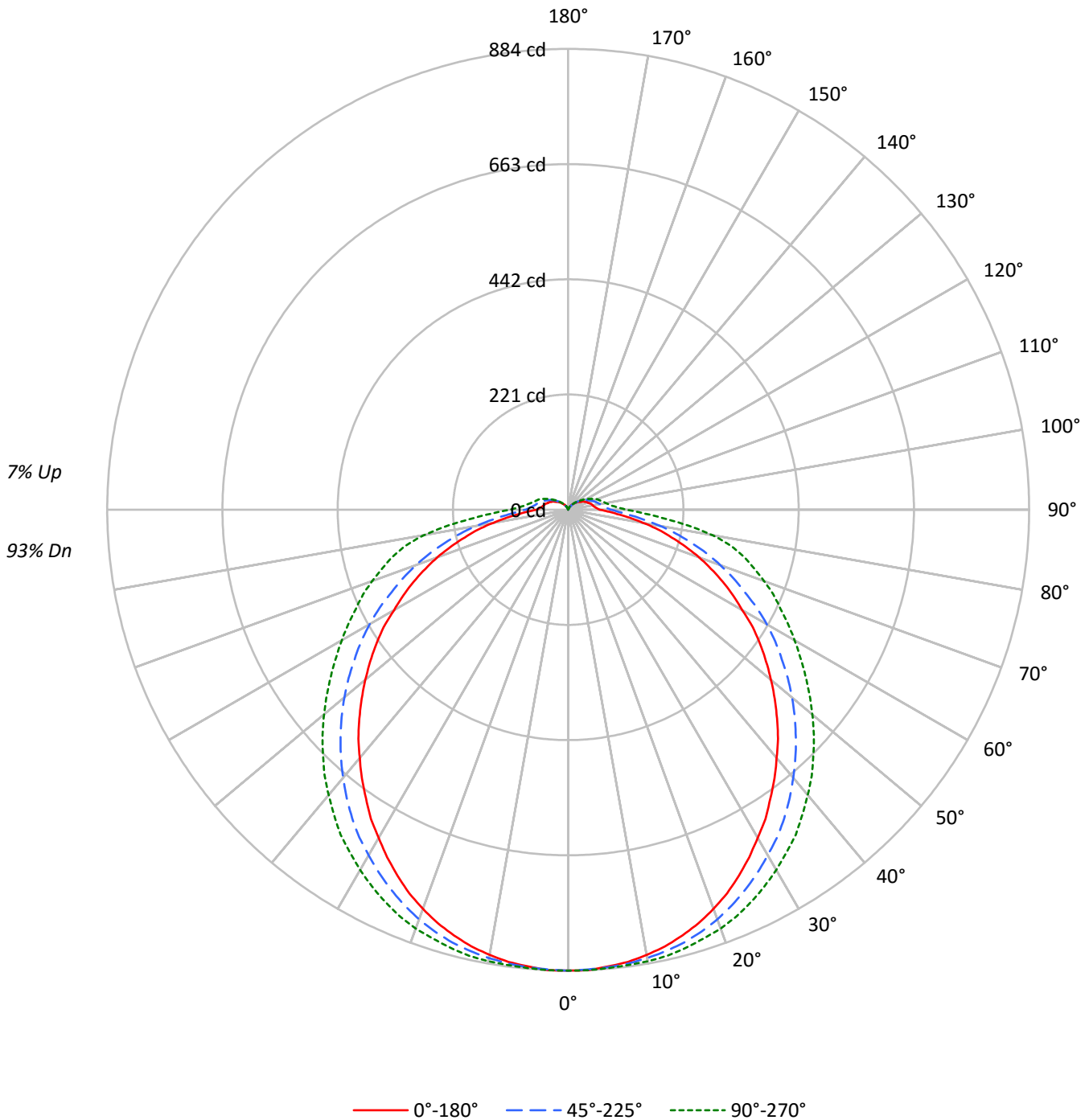
Lumens per Lamp: N/A
Luminaire Lumens: 3094.2 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 25.6
Input Voltage (V): NR
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



TEST NUMBER: P384677
CATALOG NUMBER: 24ID-30-L850-CFD3

Luminous Intensity Polar Plot





TEST NUMBER: P384677

CATALOG NUMBER: 24ID-30-L850-CFD3

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	105	100	95	91	102	97	93	89	91	88	84	86	83	80	81	79	77	74
2	95	86	79	73	92	84	77	71	79	73	68	74	70	66	70	67	63	60
3	86	75	66	60	83	73	65	59	69	62	57	65	59	55	62	57	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	32
7	62	48	39	33	60	47	38	32	44	37	31	42	36	31	40	35	30	28
8	57	44	35	29	55	43	34	29	41	33	28	39	32	27	37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22
10	50	37	29	23	49	36	28	23	35	28	23	33	27	22	32	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1190	1190	1190
5°	1182	1176	1179
10°	1172	1166	1176
15°	1158	1156	1173
20°	1141	1142	1171
25°	1118	1124	1165
30°	1090	1105	1156
35°	1064	1085	1149
40°	1038	1061	1136
45°	1014	1037	1125
50°	989	1013	1113
55°	967	986	1106
60°	937	962	1109
65°	918	926	1128
70°	896	894	1170
75°	865	848	1236
80°	839	792	1273
85°	847	729	1147



TEST NUMBER: P384677

CATALOG NUMBER: 24ID-30-L850-CFD3

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.8	2.7
10°-20°	242.3	7.8
20°-30°	370.2	12.0
30°-40°	450.6	14.6
40°-50°	476.3	15.4
50°-60°	449.5	14.5
60°-70°	378.2	12.2
70°-80°	272.7	8.8
80°-90°	143.8	4.6
90°-100°	77.0	2.5
100°-110°	58.5	1.9
110°-120°	42.4	1.4
120°-130°	26.6	0.9
130°-140°	14.4	0.5
140°-150°	6.3	0.2
150°-160°	1.7	0.1
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	696.3	22.5
0°-40°	1146.9	37.1
0°-60°	2072.7	67.0
0°-90°	2867.4	92.7
90°-120°	177.8	5.7
90°-150°	225.1	7.3
90°-180°	227.0	7.3
0°-180°	3094.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	884	884	884	884	884	
5°	880	880	881	881	883	84
15°	846	849	860	866	870	239
25°	775	784	804	822	830	357
35°	676	691	722	750	761	423
45°	566	583	617	651	665	437
55°	449	469	500	537	556	401
65°	327	346	373	420	449	323
75°	205	222	244	292	349	218
85°	94	106	119	148	180	88
90°	60	71	82	97	111	34
95°	52	60	69	79	85	42
105°	45	49	56	62	65	47
115°	36	39	43	46	49	36
125°	26	26	31	31	32	24
135°	18	17	18	18	20	14
145°	11	9	9	9	11	7
155°	5	5	2	3	5	2
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P384677

CATALOG NUMBER: 24ID-30-L850-CFD3

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	884.2	884.2	884.2	884.2	884.2
2.5°	884.2	882.7	882.7	882.7	884.2
5°	879.6	879.6	881.1	881.1	882.7
7.5°	875.0	875.0	878.0	879.6	881.1
10°	867.2	868.8	873.4	876.5	879.6
12.5°	858.0	859.5	867.2	873.4	876.5
15°	845.6	848.7	859.5	865.7	870.3
17.5°	831.7	836.4	848.7	858.0	862.6
20°	814.8	820.9	836.4	848.7	854.9
22.5°	796.3	802.4	820.9	836.4	844.1
25°	774.7	783.9	804.0	822.5	830.2
27.5°	751.5	762.3	785.5	807.1	814.8
30°	726.8	739.2	765.4	788.5	797.8
32.5°	703.7	716.0	745.3	770.0	779.3
35°	675.9	691.3	722.2	750.0	760.8
37.5°	649.7	665.1	697.5	726.8	737.6
40°	621.9	637.3	671.3	703.7	714.5
42.5°	595.6	611.1	645.0	679.0	691.3
45°	566.3	583.3	617.3	651.2	665.1
47.5°	537.0	554.0	589.5	625.0	638.9
50°	507.7	526.2	560.2	595.6	611.1
52.5°	478.4	496.9	530.8	567.9	583.3
55°	449.1	469.1	500.0	537.0	555.5
57.5°	419.7	439.8	470.7	509.2	527.7
60°	385.8	408.9	439.8	479.9	501.5
62.5°	356.5	376.5	407.4	449.1	475.3
65°	327.1	345.7	373.4	419.7	449.1
67.5°	296.3	316.3	342.6	385.8	425.9
70°	267.0	283.9	310.2	354.9	399.7
72.5°	236.1	253.1	277.8	324.1	373.4
75°	205.2	222.2	243.8	291.7	348.7
77.5°	177.5	191.3	211.4	257.7	319.4
80°	146.6	160.5	179.0	220.7	280.8
82.5°	118.8	131.2	146.6	183.6	231.5
85°	94.1	106.5	118.8	148.1	180.5
87.5°	75.6	84.9	97.2	118.8	140.4
90°	60.2	71.0	81.8	97.2	111.1
92.5°	55.6	64.8	74.1	86.4	95.7
95°	52.5	60.2	69.4	78.7	84.9
97.5°	49.4	57.1	64.8	74.1	78.7
100°	47.8	54.0	61.7	69.4	72.5
102.5°	46.3	50.9	58.6	64.8	69.4
105°	44.8	49.4	55.6	61.7	64.8
107.5°	41.7	46.3	52.5	58.6	61.7
110°	40.1	43.2	49.4	54.0	58.6



TEST NUMBER: P384677

CATALOG NUMBER: 24ID-30-L850-CFD3

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	38.6	41.7	46.3	50.9	54.0
115°	35.5	38.6	43.2	46.3	49.4
117.5°	33.9	35.5	40.1	41.7	44.8
120°	30.9	32.4	37.0	38.6	40.1
122.5°	27.8	29.3	33.9	33.9	37.0
125°	26.2	26.2	30.9	30.9	32.4
127.5°	24.7	24.7	27.8	27.8	29.3
130°	21.6	21.6	24.7	24.7	24.7
132.5°	20.1	18.5	21.6	21.6	23.1
135°	18.5	17.0	18.5	18.5	20.1
137.5°	15.4	15.4	17.0	15.4	17.0
140°	13.9	12.3	13.9	13.9	15.4
142.5°	12.3	10.8	12.3	10.8	12.3
145°	10.8	9.3	9.3	9.3	10.8
147.5°	9.3	7.7	7.7	7.7	9.3
150°	7.7	6.2	6.2	6.2	7.7
152.5°	6.2	4.6	3.1	4.6	6.2
155°	4.6	4.6	1.5	3.1	4.6
157.5°	3.1	3.1	0.0	1.5	3.1
160°	1.5	1.5	0.0	1.5	1.5
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)