

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: P384296

Luminaire Tested: **22ID-40-L840-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384296
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: 22ID-40-L840-CFD2
Description: 2X2 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4116.9 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')
CIE Type: Direct

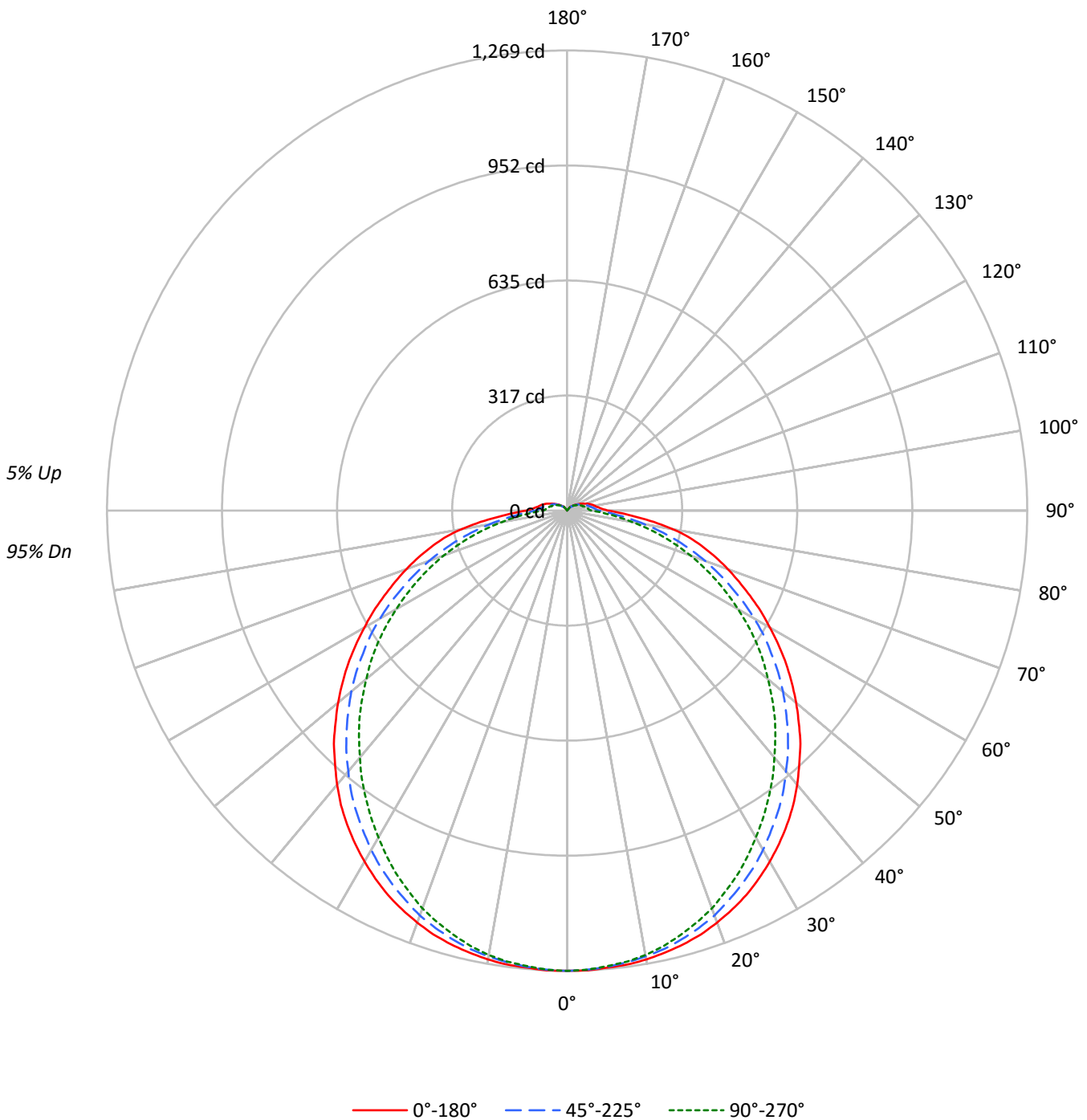
Input Watts (W): 32.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P384296

CATALOG NUMBER: 22ID-40-L840-CFD2

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	0	
RCR																						
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95				95
1	106	101	96	92	103	98	94	90	93	90	86	88	85	83	84	81	79	77				77
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66	63				63
3	87	76	68	61	84	74	67	60	71	64	58	67	62	57	64	59	55	53				53
4	80	68	58	51	77	66	57	51	63	55	50	60	53	48	57	51	47	45				45
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41	38				38
6	68	54	45	38	65	53	44	38	50	43	37	48	42	36	46	40	36	33				33
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	32	30				30
8	58	45	36	30	56	44	35	30	42	35	29	40	34	29	39	33	28	26				26
9	54	41	33	27	53	40	32	27	39	31	26	37	31	26	36	30	25	24				24
10	51	38	30	24	50	37	29	24	36	29	24	34	28	23	33	27	23	21				21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3416	3416	3416
5°	3393	3377	3382
10°	3385	3342	3351
15°	3374	3304	3300
20°	3361	3263	3245
25°	3343	3204	3171
30°	3314	3143	3086
35°	3282	3077	3005
40°	3240	3002	2919
45°	3196	2928	2846
50°	3141	2852	2753
55°	3092	2761	2674
60°	3039	2665	2560
65°	3008	2534	2447
70°	3019	2408	2314
75°	3081	2235	2142
80°	3126	2007	1924
85°	2957	1804	1774



TEST NUMBER: P384296

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.1	2.9
10°-20°	345.5	8.4
20°-30°	524.7	12.7
30°-40°	633.8	15.4
40°-50°	663.3	16.1
50°-60°	615.5	15.0
60°-70°	498.6	12.1
70°-80°	336.4	8.2
80°-90°	162.5	3.9
90°-100°	81.8	2.0
100°-110°	59.4	1.4
110°-120°	39.7	1.0
120°-130°	23.0	0.6
130°-140°	11.6	0.3
140°-150°	0.9	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	990.3	24.1
0°-40°	1624.0	39.4
0°-60°	2902.9	70.5
0°-90°	3900.4	94.7
90°-120°	180.9	4.4
90°-150°	216.4	5.3
90°-180°	216.0	5.2
0°-180°	4116.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1269	1269	1269	1269	1269	
5°	1265	1263	1263	1261	1261	121
15°	1238	1232	1224	1215	1211	350
25°	1170	1159	1138	1118	1109	539
35°	1057	1043	1014	983	968	662
45°	910	893	860	825	810	701
55°	738	721	688	654	638	659
65°	557	536	499	472	453	553
75°	388	349	310	287	270	409
85°	187	162	137	125	112	177
90°	112	102	87	79	66	64
95°	89	83	75	66	58	70
105°	66	62	56	50	46	71
115°	46	42	42	35	35	45
125°	29	25	27	23	25	26
135°	17	14	14	14	17	13
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



TEST NUMBER: P384296

CATALOG NUMBER: 22ID-40-L840-CFD2

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1269.3	1269.3	1269.3	1269.3	1269.3
2.5°	1269.3	1267.2	1267.2	1267.2	1267.2
5°	1265.2	1263.1	1263.1	1261.0	1261.0
7.5°	1263.1	1258.9	1256.9	1254.8	1254.8
10°	1256.9	1252.7	1248.5	1244.4	1244.4
12.5°	1248.5	1244.4	1238.2	1229.8	1229.8
15°	1238.2	1231.9	1223.6	1215.3	1211.1
17.5°	1225.7	1219.5	1207.0	1194.5	1190.4
20°	1209.1	1200.8	1188.3	1171.7	1167.5
22.5°	1190.4	1182.1	1163.4	1146.7	1138.4
25°	1169.6	1159.2	1138.4	1117.7	1109.4
27.5°	1144.7	1134.3	1111.4	1086.5	1076.1
30°	1117.7	1105.2	1080.3	1053.3	1040.8
32.5°	1088.6	1074.0	1047.0	1017.9	1005.5
35°	1057.4	1042.9	1013.8	982.6	968.1
37.5°	1024.2	1009.6	978.5	945.2	930.7
40°	986.8	972.2	939.0	905.8	889.1
42.5°	947.3	934.8	901.6	866.3	849.7
45°	909.9	893.3	860.1	824.7	810.2
47.5°	866.3	853.8	818.5	783.2	766.6
50°	824.7	810.2	777.0	741.6	723.0
52.5°	781.1	768.7	733.3	698.0	681.4
55°	737.5	720.9	687.6	654.4	637.8
57.5°	691.8	677.2	644.0	612.8	592.1
60°	646.1	631.5	596.2	567.1	544.3
62.5°	602.5	585.8	548.4	517.3	498.6
65°	556.8	536.0	498.6	471.6	452.9
67.5°	513.1	488.2	450.8	425.9	407.2
70°	471.6	442.5	405.1	380.2	361.5
72.5°	430.0	394.7	355.2	332.4	315.8
75°	388.5	349.0	309.5	286.7	270.1
77.5°	346.9	301.2	261.8	243.1	226.4
80°	297.1	253.4	216.1	199.4	182.8
82.5°	241.0	205.7	174.5	157.9	145.4
85°	187.0	162.0	137.1	124.6	112.2
87.5°	145.4	126.7	108.0	97.6	87.3
90°	112.2	101.8	87.3	78.9	66.5
92.5°	97.6	89.3	78.9	70.6	60.2
95°	89.3	83.1	74.8	66.5	58.2
97.5°	81.0	76.9	68.6	62.3	54.0
100°	76.9	70.6	64.4	58.2	51.9
102.5°	72.7	66.5	60.2	54.0	49.9
105°	66.5	62.3	56.1	49.9	45.7
107.5°	62.3	56.1	51.9	45.7	43.6
110°	56.1	51.9	47.8	43.6	41.5



TEST NUMBER: P384296

CATALOG NUMBER: 22ID-40-L840-CFD2

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	49.9	47.8	43.6	39.5	37.4
115°	45.7	41.5	41.5	35.3	35.3
117.5°	41.5	37.4	37.4	33.2	33.2
120°	35.3	33.2	33.2	29.1	29.1
122.5°	31.2	29.1	29.1	27.0	27.0
125°	29.1	24.9	27.0	22.9	24.9
127.5°	24.9	22.9	22.9	20.8	22.9
130°	20.8	18.7	18.7	18.7	20.8
132.5°	18.7	16.6	16.6	16.6	18.7
135°	16.6	14.5	14.5	14.5	16.6
137.5°	14.5	12.5	10.4	12.5	14.5
140°	12.5	10.4	8.3	10.4	12.5
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)