

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: P384683

Luminaire Tested: **24ID-40-L835-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384683
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-40-L835-CFD3
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

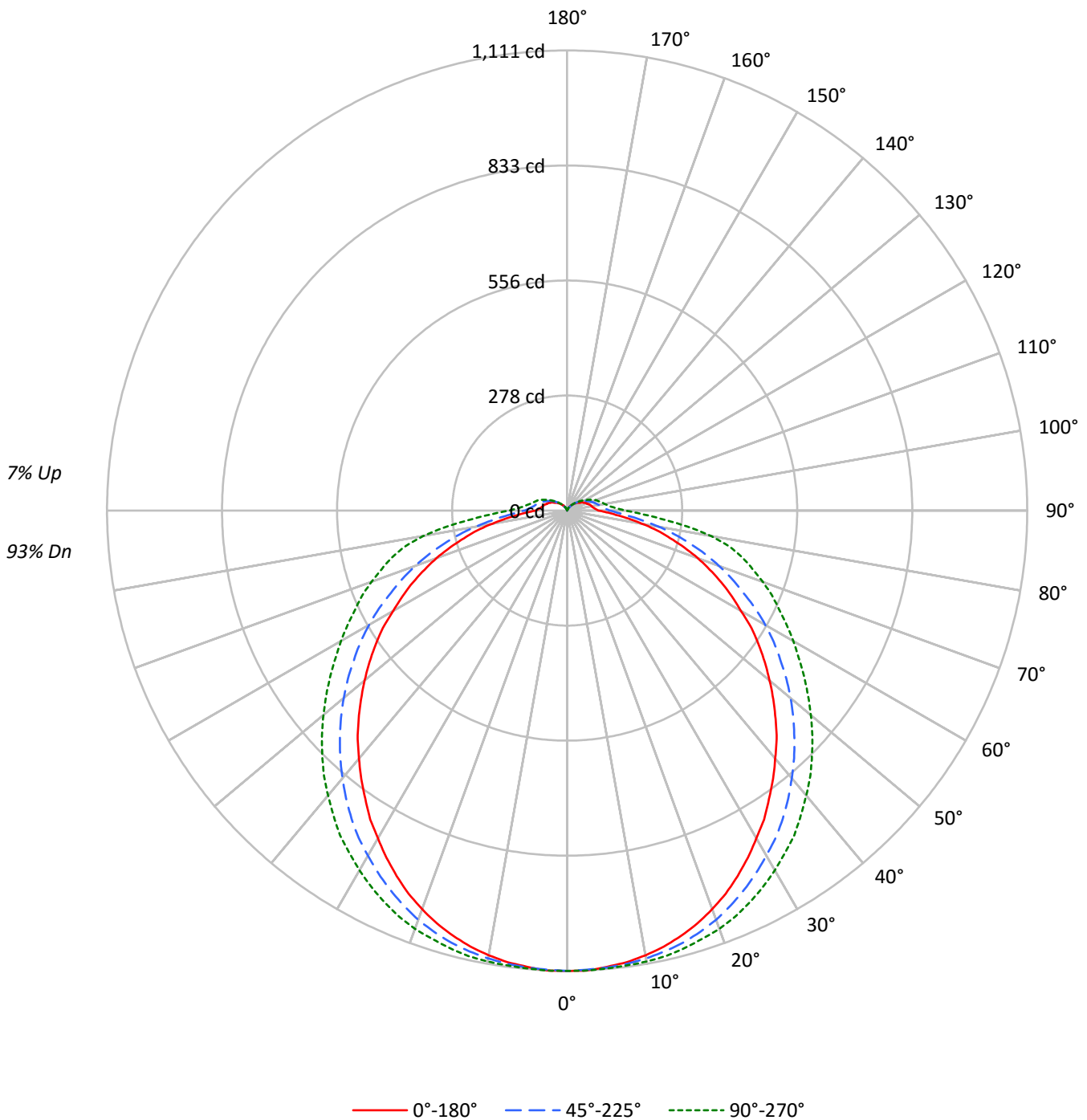
Lumens per Lamp: N/A
Luminaire Lumens: 3889.2 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 35.2
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: P384683
CATALOG NUMBER: 24ID-40-L835-CFD3

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	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°	1495	1495	1495
5°	1485	1479	1482
10°	1473	1466	1478
15°	1456	1453	1474
20°	1434	1436	1472
25°	1405	1413	1464
30°	1370	1388	1453
35°	1337	1364	1444
40°	1305	1334	1428
45°	1275	1303	1414
50°	1243	1273	1399
55°	1215	1239	1390
60°	1177	1210	1394
65°	1154	1164	1417
70°	1127	1124	1471
75°	1088	1066	1554
80°	1054	995	1601
85°	1065	916	1442



TEST NUMBER: P384683

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.4	2.7
10°-20°	304.5	7.8
20°-30°	465.3	12.0
30°-40°	566.4	14.6
40°-50°	598.6	15.4
50°-60°	565.1	14.5
60°-70°	475.4	12.2
70°-80°	342.7	8.8
80°-90°	180.7	4.6
90°-100°	96.8	2.5
100°-110°	73.5	1.9
110°-120°	53.3	1.4
120°-130°	33.5	0.9
130°-140°	18.1	0.5
140°-150°	7.9	0.2
150°-160°	2.1	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	875.2	22.5
0°-40°	1441.5	37.1
0°-60°	2605.2	67.0
0°-90°	3604.1	92.7
90°-120°	223.5	5.7
90°-150°	283.0	7.3
90°-180°	285.0	7.3
0°-180°	3889.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1111	1111	1111	1111	1111	
5°	1106	1106	1108	1108	1110	105
15°	1063	1067	1080	1088	1094	300
25°	974	985	1010	1034	1044	448
35°	850	869	908	943	956	532
45°	712	733	776	818	836	549
55°	564	590	628	675	698	504
65°	411	434	469	528	564	406
75°	258	279	306	367	438	274
85°	118	134	149	186	227	111
90°	76	89	103	122	140	43
95°	66	76	87	99	107	53
105°	56	62	70	78	82	59
115°	45	48	54	58	62	45
125°	33	33	39	39	41	30
135°	23	21	23	23	25	18
145°	14	12	12	12	14	9
155°	6	6	2	4	6	3
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P384683

CATALOG NUMBER: 24ID-40-L835-CFD3

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1111.4	1111.4	1111.4	1111.4	1111.4
2.5°	1111.4	1109.5	1109.5	1109.5	1111.4
5°	1105.6	1105.6	1107.5	1107.5	1109.5
7.5°	1099.8	1099.8	1103.6	1105.6	1107.5
10°	1090.1	1092.0	1097.8	1101.7	1105.6
12.5°	1078.4	1080.4	1090.1	1097.8	1101.7
15°	1062.9	1066.8	1080.4	1088.1	1093.9
17.5°	1045.4	1051.3	1066.8	1078.4	1084.2
20°	1024.1	1031.9	1051.3	1066.8	1074.5
22.5°	1000.8	1008.6	1031.9	1051.3	1061.0
25°	973.7	985.3	1010.5	1033.8	1043.5
27.5°	944.6	958.2	987.3	1014.4	1024.1
30°	913.6	929.1	962.0	991.1	1002.8
32.5°	884.5	900.0	936.8	967.9	979.5
35°	849.5	868.9	907.7	942.6	956.2
37.5°	816.6	836.0	876.7	913.6	927.1
40°	781.7	801.1	843.7	884.5	898.0
42.5°	748.7	768.1	810.8	853.4	868.9
45°	711.8	733.2	775.8	818.5	836.0
47.5°	675.0	696.3	740.9	785.5	803.0
50°	638.1	661.4	704.1	748.7	768.1
52.5°	601.3	624.6	667.2	713.8	733.2
55°	564.4	589.6	628.4	675.0	698.3
57.5°	527.6	552.8	591.6	640.1	663.3
60°	484.9	514.0	552.8	603.2	630.4
62.5°	448.0	473.3	512.1	564.4	597.4
65°	411.2	434.5	469.4	527.6	564.4
67.5°	372.4	397.6	430.6	484.9	535.3
70°	335.6	356.9	389.9	446.1	502.4
72.5°	296.8	318.1	349.1	407.3	469.4
75°	258.0	279.3	306.5	366.6	438.4
77.5°	223.1	240.5	265.7	323.9	401.5
80°	184.3	201.7	225.0	277.4	353.0
82.5°	149.3	164.9	184.3	230.8	290.9
85°	118.3	133.8	149.3	186.2	226.9
87.5°	95.0	106.7	122.2	149.3	176.5
90°	75.6	89.2	102.8	122.2	139.7
92.5°	69.8	81.5	93.1	108.6	120.3
95°	65.9	75.6	87.3	98.9	106.7
97.5°	62.1	71.8	81.5	93.1	98.9
100°	60.1	67.9	77.6	87.3	91.2
102.5°	58.2	64.0	73.7	81.5	87.3
105°	56.2	62.1	69.8	77.6	81.5
107.5°	52.4	58.2	65.9	73.7	77.6
110°	50.4	54.3	62.1	67.9	73.7



TEST NUMBER: P384683

CATALOG NUMBER: 24ID-40-L835-CFD3

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	48.5	52.4	58.2	64.0	67.9
115°	44.6	48.5	54.3	58.2	62.1
117.5°	42.7	44.6	50.4	52.4	56.2
120°	38.8	40.7	46.6	48.5	50.4
122.5°	34.9	36.9	42.7	42.7	46.6
125°	33.0	33.0	38.8	38.8	40.7
127.5°	31.0	31.0	34.9	34.9	36.9
130°	27.2	27.2	31.0	31.0	31.0
132.5°	25.2	23.3	27.2	27.2	29.1
135°	23.3	21.3	23.3	23.3	25.2
137.5°	19.4	19.4	21.3	19.4	21.3
140°	17.5	15.5	17.5	17.5	19.4
142.5°	15.5	13.6	15.5	13.6	15.5
145°	13.6	11.6	11.6	11.6	13.6
147.5°	11.6	9.7	9.7	9.7	11.6
150°	9.7	7.8	7.8	7.8	9.7
152.5°	7.8	5.8	3.9	5.8	7.8
155°	5.8	5.8	1.9	3.9	5.8
157.5°	3.9	3.9	0.0	1.9	3.9
160°	1.9	1.9	0.0	1.9	1.9
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)