

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: P383790

Luminaire Tested: **22ID-40-L830-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-65)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22ID-40-L830-CFR1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

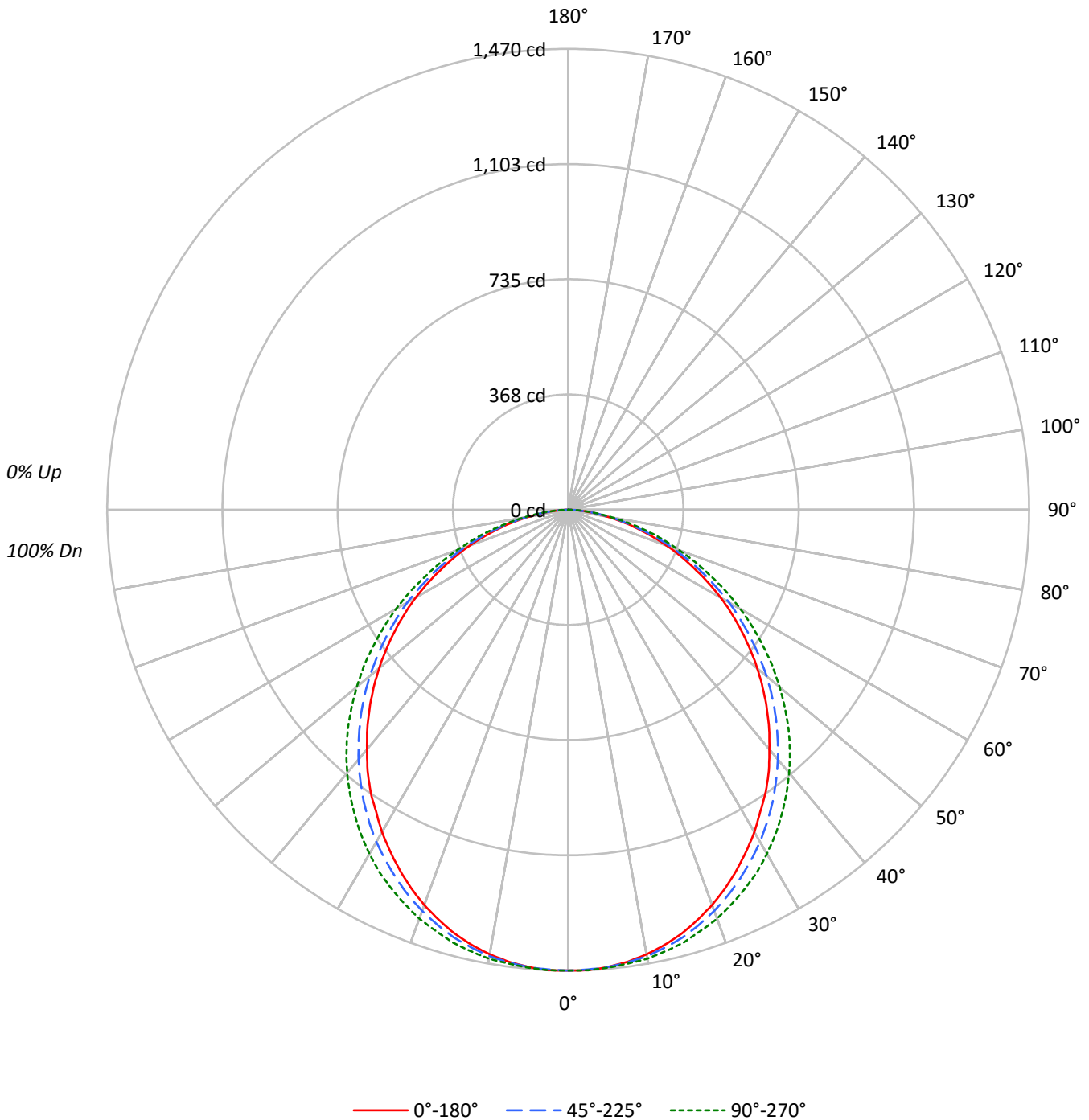
Lumens per Lamp: N/A
Luminaire Lumens: 3992.9 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 32.5
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3956	3956	3956
5°	3955	3955	3961
10°	3935	3951	3974
15°	3900	3934	3978
20°	3842	3900	3975
25°	3769	3852	3960
30°	3688	3801	3938
35°	3609	3734	3899
40°	3507	3655	3852
45°	3409	3562	3784
50°	3296	3456	3683
55°	3166	3326	3562
60°	3027	3189	3416
65°	2826	2993	3197
70°	2623	2766	2955
75°	2339	2464	2673
80°	1960	2055	2241
85°	1488	1488	1673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.2	3.5
10°-20°	398.2	10.0
20°-30°	598.7	15.0
30°-40°	712.2	17.8
40°-50°	724.7	18.1
50°-60°	637.7	16.0
60°-70°	467.8	11.7
70°-80°	253.9	6.4
80°-90°	60.6	1.5
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°	1136.0	28.4
0°-40°	1848.2	46.3
0°-60°	3210.6	80.4
0°-90°	3992.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3992.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1470	1470	1470	1470	1470	
5°	1464	1462	1464	1464	1466	139
15°	1400	1402	1412	1420	1428	394
25°	1269	1277	1298	1320	1334	585
35°	1099	1107	1137	1171	1187	686
45°	896	904	936	976	994	691
55°	675	685	709	743	759	604
65°	444	452	470	490	502	441
75°	225	229	237	249	257	239
85°	48	48	48	52	54	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1470.2	1470.2	1470.2	1470.2	1470.2
2.5°	1470.2	1468.2	1468.2	1468.2	1470.2
5°	1464.2	1462.2	1464.2	1464.2	1466.2
7.5°	1454.2	1452.1	1456.2	1458.2	1460.2
10°	1440.1	1440.1	1446.1	1450.1	1454.2
12.5°	1422.0	1424.0	1430.0	1436.1	1442.1
15°	1399.9	1401.9	1412.0	1420.0	1428.0
17.5°	1371.8	1375.8	1387.9	1399.9	1408.0
20°	1341.7	1347.7	1361.8	1377.8	1387.9
22.5°	1307.5	1315.6	1331.6	1351.7	1361.8
25°	1269.4	1277.4	1297.5	1319.6	1333.6
27.5°	1229.2	1239.2	1261.3	1287.4	1303.5
30°	1187.0	1197.1	1223.2	1251.3	1267.4
32.5°	1140.8	1152.9	1181.0	1213.1	1229.2
35°	1098.6	1106.7	1136.8	1171.0	1187.0
37.5°	1050.4	1060.5	1088.6	1124.8	1142.8
40°	998.2	1008.3	1040.4	1076.6	1096.6
42.5°	948.0	956.0	988.2	1028.3	1046.4
45°	895.8	903.8	936.0	976.1	994.2
47.5°	841.6	851.6	881.7	919.9	938.0
50°	787.3	795.4	825.5	861.6	879.7
52.5°	731.1	739.1	767.2	803.4	821.5
55°	674.9	684.9	709.0	743.1	759.2
57.5°	618.6	628.7	650.8	682.9	696.9
60°	562.4	570.4	592.5	620.6	634.7
62.5°	502.1	508.1	530.2	558.4	570.4
65°	443.9	451.9	470.0	490.1	502.1
67.5°	389.6	393.7	409.7	431.8	439.9
70°	333.4	337.4	351.5	369.6	375.6
72.5°	277.2	283.2	293.2	309.3	317.3
75°	225.0	229.0	237.0	249.1	257.1
77.5°	174.7	176.7	182.8	192.8	198.8
80°	126.5	128.5	132.6	140.6	144.6
82.5°	84.4	86.4	88.4	92.4	96.4
85°	48.2	48.2	48.2	52.2	54.2
87.5°	18.1	16.1	16.1	16.1	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)