

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: P385246

Luminaire Tested: **14ID-40-L830-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-73)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-40-L830-CNV
Description: 1X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

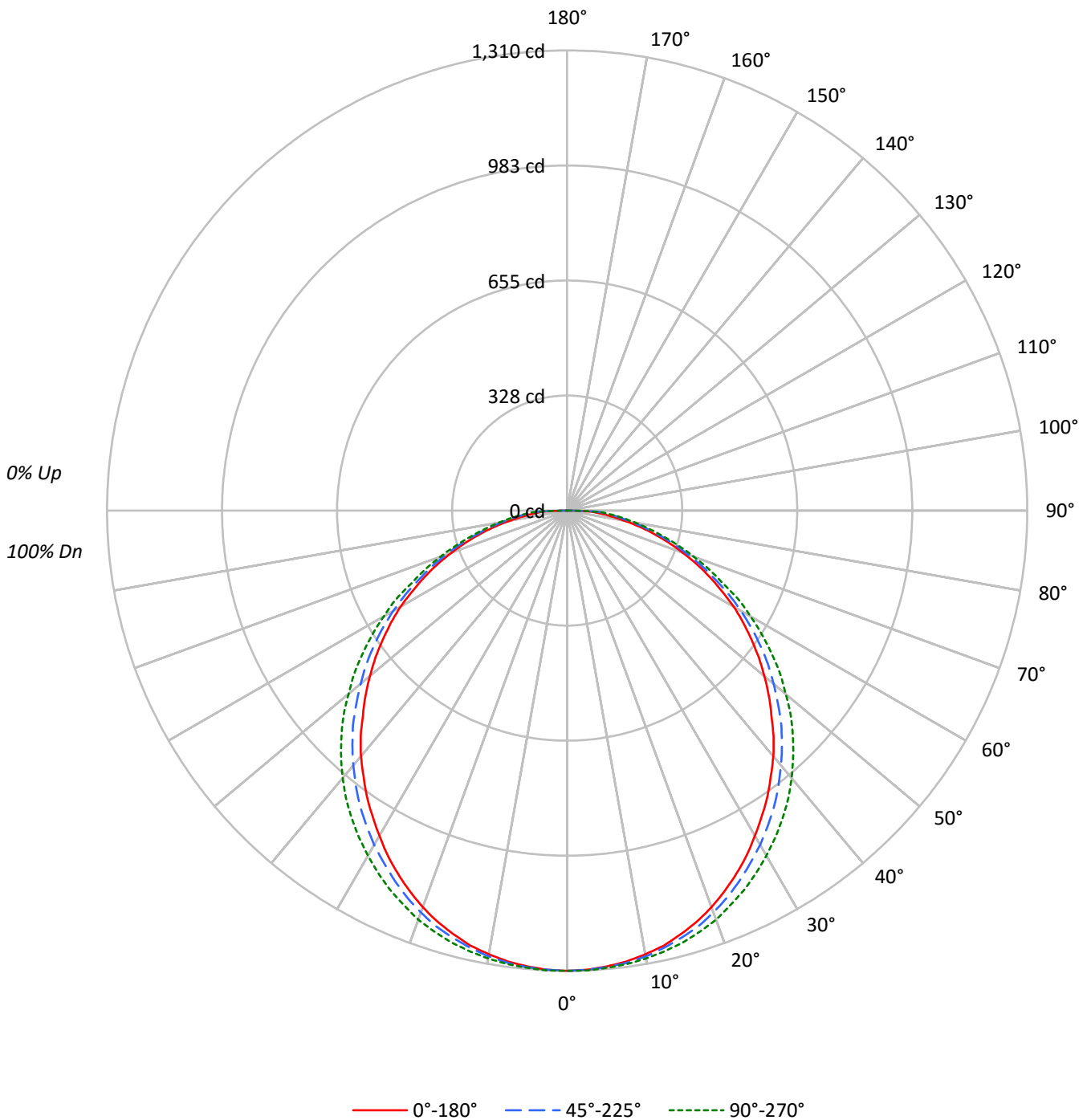
Lumens per Lamp: N/A
Luminaire Lumens: 3800.4 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 33.4
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



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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	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3526	3526	3526
5°	3505	3479	3478
10°	3479	3432	3436
15°	3441	3374	3394
20°	3390	3309	3346
25°	3321	3229	3283
30°	3244	3147	3215
35°	3173	3060	3145
40°	3099	2960	3064
45°	3003	2858	2965
50°	2924	2731	2837
55°	2835	2604	2696
60°	2748	2449	2517
65°	2622	2257	2290
70°	2469	2048	2069
75°	2294	1817	1811
80°	2056	1569	1559
85°	1943	1364	1323



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.0	3.3
10°-20°	355.3	9.3
20°-30°	536.2	14.1
30°-40°	643.6	16.9
40°-50°	666.0	17.5
50°-60°	603.4	15.9
60°-70°	464.9	12.2
70°-80°	287.7	7.6
80°-90°	119.5	3.1
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°	1015.4	26.7
0°-40°	1659.0	43.7
0°-60°	2928.4	77.1
0°-90°	3800.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3800.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1310	1310	1310	1310	1310	
5°	1302	1302	1304	1304	1306	124
15°	1249	1251	1259	1267	1273	352
25°	1140	1144	1162	1182	1192	525
35°	994	1002	1028	1055	1069	621
45°	822	834	862	893	909	636
55°	640	650	672	702	712	573
65°	449	453	466	486	488	444
75°	255	261	271	283	283	270
85°	93	103	119	126	124	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1310.3	1310.3	1310.3	1310.3	1310.3
2.5°	1308.3	1308.3	1308.3	1308.3	1310.3
5°	1302.4	1302.4	1304.4	1304.4	1306.3
7.5°	1294.5	1294.5	1298.4	1298.4	1302.4
10°	1282.6	1284.6	1288.6	1290.5	1294.5
12.5°	1268.8	1268.8	1274.7	1280.7	1284.6
15°	1249.0	1251.0	1258.9	1266.8	1272.8
17.5°	1227.3	1229.3	1241.1	1249.0	1256.9
20°	1201.6	1203.6	1217.4	1229.3	1239.2
22.5°	1172.0	1175.9	1191.7	1207.5	1215.4
25°	1140.3	1144.3	1162.1	1181.8	1191.7
27.5°	1106.7	1112.7	1130.5	1152.2	1164.1
30°	1069.2	1077.1	1098.8	1122.6	1134.4
32.5°	1031.6	1039.5	1063.3	1090.9	1102.8
35°	994.1	1002.0	1027.7	1055.4	1069.2
37.5°	952.6	960.5	988.2	1017.8	1033.6
40°	913.1	921.0	946.7	980.3	994.1
42.5°	869.6	877.5	905.2	936.8	952.6
45°	822.1	834.0	861.7	893.3	909.1
47.5°	778.7	788.6	814.2	847.8	863.7
50°	733.2	743.1	766.8	800.4	812.3
52.5°	687.8	697.6	721.4	753.0	764.8
55°	640.3	650.2	671.9	701.6	711.5
57.5°	594.9	602.8	622.5	650.2	658.1
60°	547.4	555.3	571.2	596.8	602.8
62.5°	496.1	502.0	519.8	543.5	551.4
65°	448.6	452.6	466.4	486.2	488.2
67.5°	399.2	403.2	417.0	430.8	436.8
70°	349.8	355.7	365.6	379.5	383.4
72.5°	302.4	308.3	318.2	330.0	332.0
75°	254.9	260.9	270.8	282.6	282.6
77.5°	209.5	215.4	227.3	237.2	237.2
80°	164.0	173.9	185.8	195.7	195.7
82.5°	126.5	134.4	150.2	158.1	158.1
85°	92.9	102.8	118.6	126.5	124.5
87.5°	67.2	77.1	90.9	96.8	94.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)