

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: P385078

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

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-72)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-40-L830-CNC
Description: 1X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

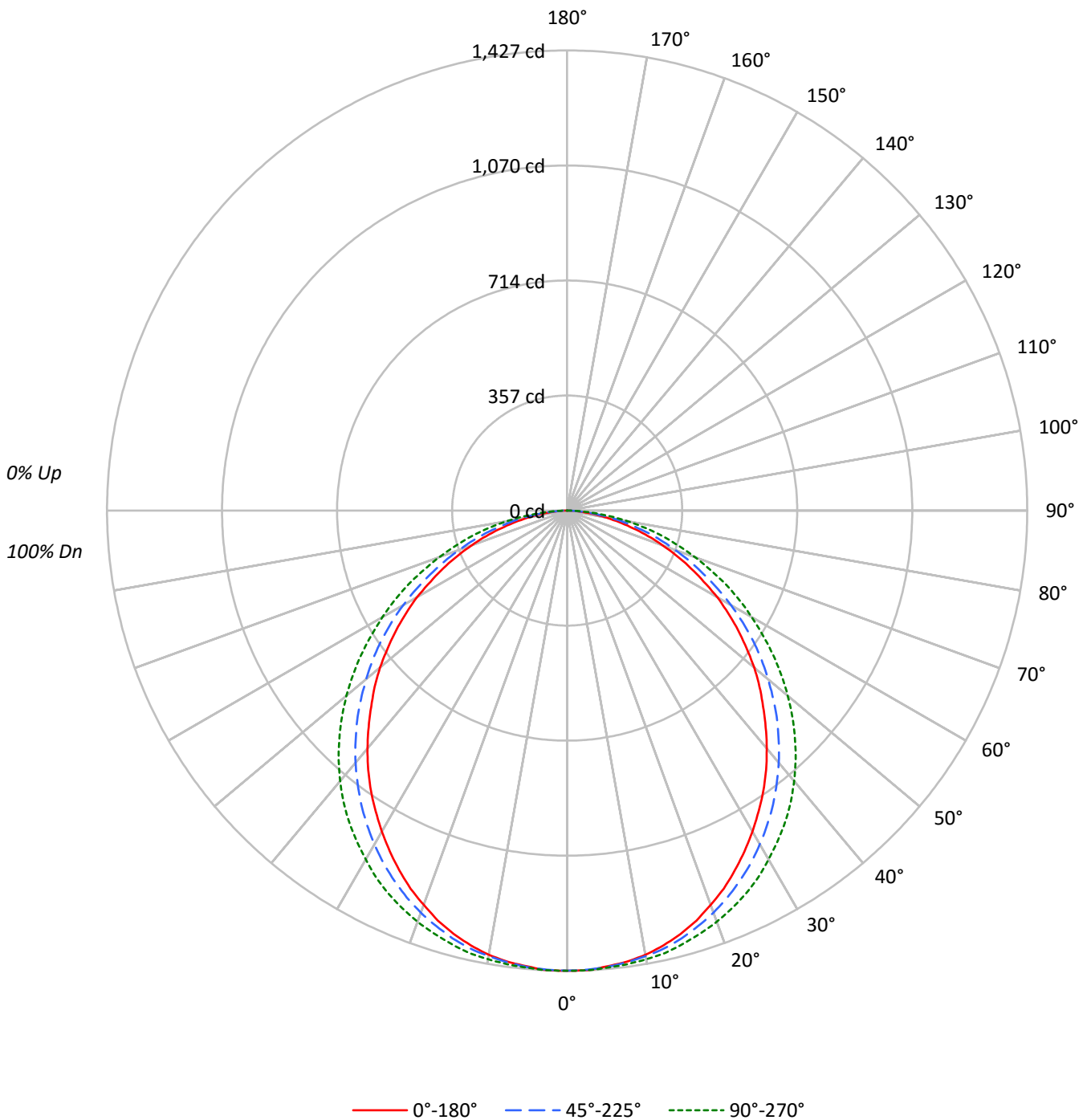
Lumens per Lamp: N/A
Luminaire Lumens: 3962.0 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.4
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	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3840	3840	3840
5°	3833	3838	3844
10°	3823	3834	3861
15°	3786	3825	3875
20°	3726	3800	3886
25°	3655	3762	3893
30°	3571	3714	3881
35°	3486	3657	3874
40°	3384	3588	3847
45°	3271	3506	3803
50°	3171	3405	3740
55°	3038	3301	3657
60°	2893	3162	3560
65°	2698	2978	3461
70°	2485	2799	3318
75°	2202	2597	3179
80°	1858	2323	2943
85°	1359	1791	2343



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.1	3.4
10°-20°	387.5	9.8
20°-30°	584.5	14.8
30°-40°	697.8	17.6
40°-50°	713.1	18.0
50°-60°	632.3	16.0
60°-70°	471.4	11.9
70°-80°	269.3	6.8
80°-90°	71.0	1.8
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°	1107.1	27.9
0°-40°	1804.8	45.6
0°-60°	3150.3	79.5
0°-90°	3962.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3962.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1427	1427	1427	1427	1427	
5°	1419	1419	1421	1421	1423	135
15°	1359	1363	1373	1385	1391	383
25°	1231	1241	1267	1295	1311	567
35°	1061	1075	1113	1157	1179	663
45°	859	877	921	971	999	664
55°	648	660	704	754	779	579
65°	424	434	468	516	544	420
75°	212	222	250	288	306	226
85°	44	46	58	72	76	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1427.0	1427.0	1427.0	1427.0	1427.0
2.5°	1427.0	1425.0	1425.0	1425.0	1427.0
5°	1419.0	1419.0	1421.0	1421.0	1423.0
7.5°	1411.0	1411.0	1413.0	1415.0	1419.0
10°	1399.0	1399.0	1403.0	1409.0	1413.0
12.5°	1381.0	1383.0	1391.0	1399.0	1405.0
15°	1359.0	1363.0	1373.0	1385.0	1391.0
17.5°	1333.0	1337.0	1351.0	1367.0	1375.0
20°	1301.1	1309.1	1327.0	1347.0	1357.0
22.5°	1269.1	1277.1	1299.1	1323.0	1335.0
25°	1231.1	1241.1	1267.1	1295.1	1311.1
27.5°	1191.1	1203.1	1233.1	1265.1	1283.1
30°	1149.2	1163.2	1195.1	1231.1	1249.1
32.5°	1105.2	1119.2	1155.2	1195.1	1215.1
35°	1061.2	1075.2	1113.2	1157.2	1179.2
37.5°	1013.3	1027.3	1067.2	1115.2	1139.2
40°	963.3	979.3	1021.3	1069.2	1095.2
42.5°	911.3	929.3	971.3	1023.3	1049.2
45°	859.4	877.4	921.3	971.3	999.3
47.5°	809.4	823.4	867.4	919.3	947.3
50°	757.5	769.4	813.4	865.4	893.4
52.5°	701.5	717.5	759.5	811.4	837.4
55°	647.5	659.5	703.5	753.5	779.4
57.5°	591.6	603.6	645.5	695.5	719.5
60°	537.6	549.6	587.6	637.5	661.5
62.5°	477.7	489.6	527.6	579.6	603.6
65°	423.7	433.7	467.7	515.6	543.6
67.5°	369.7	379.7	411.7	457.7	479.7
70°	315.8	323.8	355.7	397.7	421.7
72.5°	263.8	271.8	303.8	341.8	361.7
75°	211.8	221.8	249.8	287.8	305.8
77.5°	163.9	173.9	197.9	231.8	247.8
80°	119.9	127.9	149.9	175.9	189.9
82.5°	79.9	85.9	101.9	123.9	133.9
85°	44.0	46.0	58.0	71.9	75.9
87.5°	18.0	18.0	22.0	24.0	26.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)