

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: P383728

Luminaire Tested: **14ID-30-L840-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383728
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: 14ID-30-L840-CFR1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

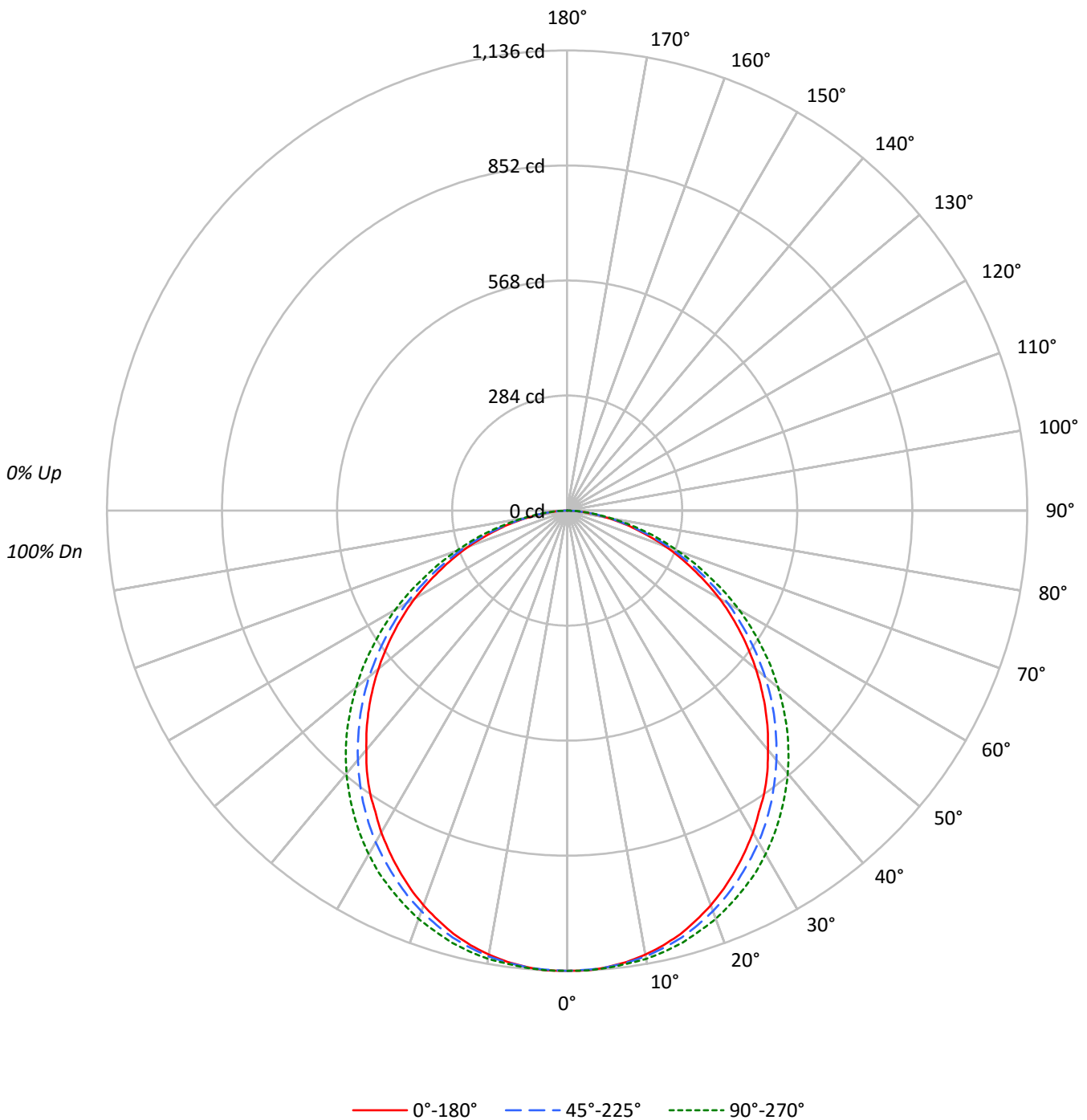
Lumens per Lamp: N/A
Luminaire Lumens: 3086.0 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24.9
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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60					60			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51					51			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44					44			
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39					39			
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31					31			
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3058	3058	3058
5°	3057	3057	3061
10°	3041	3054	3071
15°	3014	3040	3075
20°	2969	3014	3072
25°	2913	2977	3060
30°	2851	2938	3044
35°	2789	2886	3014
40°	2710	2825	2977
45°	2635	2753	2924
50°	2547	2671	2846
55°	2447	2571	2753
60°	2339	2464	2640
65°	2185	2313	2471
70°	2028	2138	2284
75°	1808	1905	2066
80°	1516	1588	1733
85°	1152	1152	1294



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	3.5
10°-20°	307.7	10.0
20°-30°	462.7	15.0
30°-40°	550.4	17.8
40°-50°	560.1	18.1
50°-60°	492.9	16.0
60°-70°	361.6	11.7
70°-80°	196.3	6.4
80°-90°	46.8	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°	878.0	28.4
0°-40°	1428.4	46.3
0°-60°	2481.4	80.4
0°-90°	3086.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3086.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1136	1136	1136	1136	1136	
5°	1132	1130	1132	1132	1133	107
15°	1082	1084	1091	1098	1104	305
25°	981	987	1003	1020	1031	452
35°	849	855	879	905	917	530
45°	692	698	723	754	768	534
55°	522	529	548	574	587	466
65°	343	349	363	379	388	341
75°	174	177	183	192	199	185
85°	37	37	37	40	42	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	<i>1136.3</i>	<i>1136.3</i>	<i>1136.3</i>	<i>1136.3</i>	<i>1136.3</i>
2.5°	<i>1136.3</i>	1134.7	1134.7	1134.7	1136.3
5°	<i>1131.6</i>	1130.1	1131.6	1131.6	1133.2
7.5°	<i>1123.9</i>	1122.3	1125.4	1127.0	1128.5
10°	<i>1113.0</i>	1113.0	1117.7	1120.8	1123.9
12.5°	<i>1099.0</i>	1100.6	1105.2	1109.9	1114.6
15°	<i>1082.0</i>	1083.5	1091.3	1097.5	1103.7
17.5°	<i>1060.2</i>	1063.3	1072.6	1082.0	1088.2
20°	<i>1036.9</i>	1041.6	1052.5	1064.9	1072.6
22.5°	<i>1010.6</i>	1016.8	1029.2	1044.7	1052.5
25°	<i>981.1</i>	987.3	1002.8	1019.9	1030.7
27.5°	<i>950.0</i>	957.8	974.9	995.0	1007.4
30°	<i>917.4</i>	925.2	945.4	967.1	979.5
32.5°	<i>881.7</i>	891.0	912.8	937.6	950.0
35°	<i>849.1</i>	855.3	878.6	905.0	917.4
37.5°	<i>811.9</i>	819.6	841.4	869.3	883.3
40°	<i>771.5</i>	779.3	804.1	832.0	847.6
42.5°	<i>732.7</i>	738.9	763.7	794.8	808.8
45°	<i>692.3</i>	698.5	723.4	754.4	768.4
47.5°	<i>650.4</i>	658.2	681.5	711.0	724.9
50°	<i>608.5</i>	614.7	638.0	665.9	679.9
52.5°	<i>565.0</i>	571.2	593.0	620.9	634.9
55°	<i>521.6</i>	529.3	548.0	574.4	586.8
57.5°	<i>478.1</i>	485.9	502.9	527.8	538.7
60°	<i>434.6</i>	440.9	457.9	479.7	490.5
62.5°	<i>388.1</i>	392.7	409.8	431.5	440.9
65°	<i>343.1</i>	349.3	363.2	378.8	388.1
67.5°	<i>301.1</i>	304.3	316.7	333.7	340.0
70°	<i>257.7</i>	260.8	271.7	285.6	290.3
72.5°	<i>214.2</i>	218.9	226.6	239.1	245.3
75°	<i>173.9</i>	177.0	183.2	192.5	198.7
77.5°	<i>135.1</i>	136.6	141.3	149.0	153.7
80°	<i>97.8</i>	99.3	102.5	108.7	111.8
82.5°	<i>65.2</i>	66.7	68.3	71.4	74.5
85°	<i>37.3</i>	37.3	37.3	40.4	41.9
87.5°	<i>14.0</i>	12.4	12.4	12.4	12.4
90°	<i>0.0</i>	0.0	0.0	0.0	0.0

(END OF REPORT)