

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: G2-1709-282-16

Luminaire Tested: **CTA-F-0100-30L835-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: G2-1709-282-16
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-0100-30L835-UNV-4
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
3000 LUMENS, 0% UPLIGHT, 100% DOWNLIGHT
Light Source: (336) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

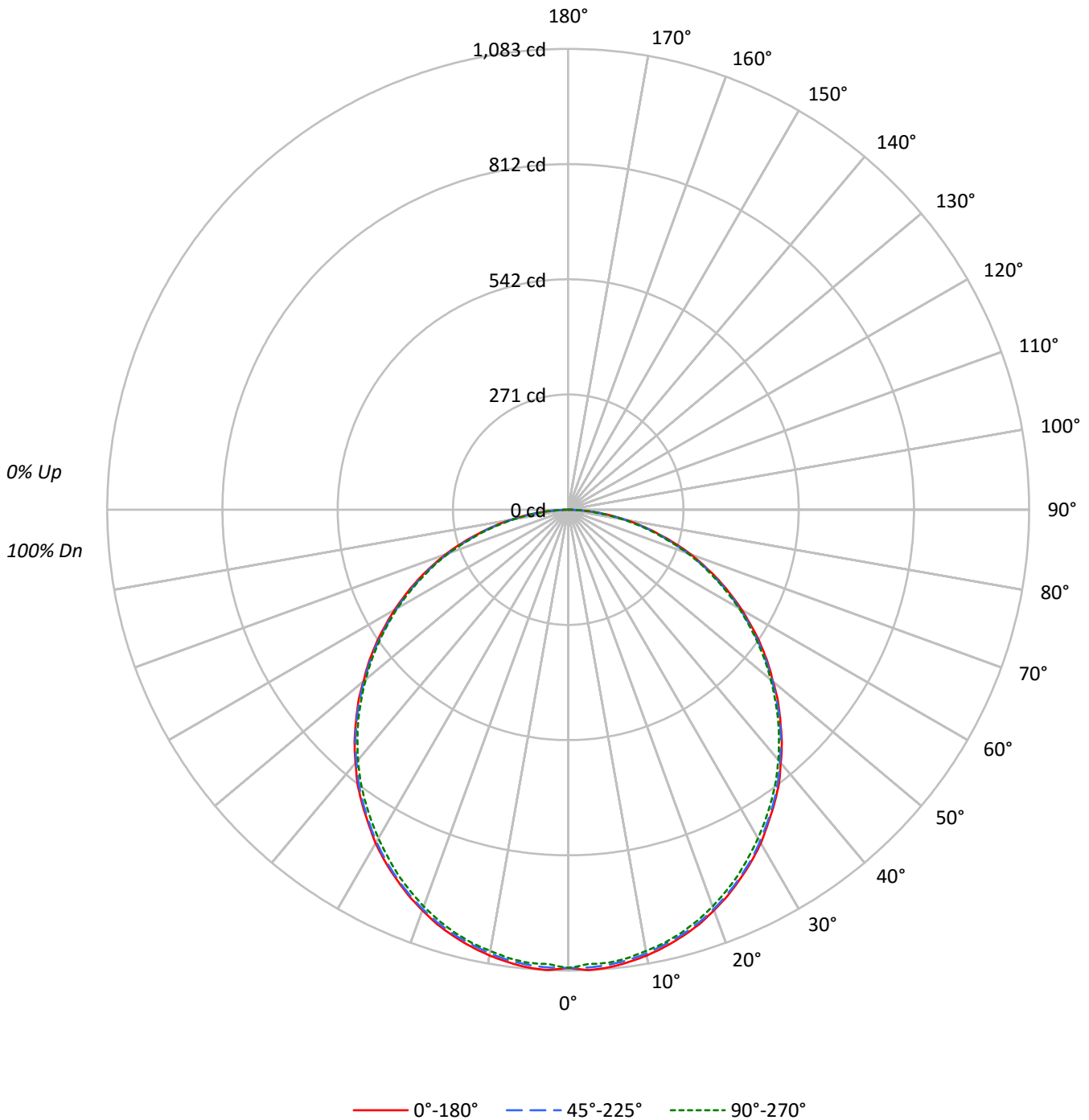
Lumens per Lamp: N/A
Luminaire Lumens: 3055.4 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.8
Input Voltage (V): 120
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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6955	6955	6955
5°	7001	6962	6930
10°	6977	6944	6905
15°	6940	6913	6880
20°	6886	6865	6817
25°	6819	6798	6741
30°	6748	6719	6652
35°	6654	6630	6567
40°	6550	6525	6474
45°	6439	6420	6366
50°	6309	6289	6239
55°	6215	6159	6114
60°	6083	6019	5980
65°	5944	5852	5807
70°	5778	5646	5627
75°	5464	5364	5265
80°	5058	4983	4797
85°	4520	4223	3853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.9	3.3
10°-20°	291.0	9.5
20°-30°	438.0	14.3
30°-40°	523.8	17.1
40°-50°	540.2	17.7
50°-60°	488.4	16.0
60°-70°	379.6	12.4
70°-80°	227.4	7.4
80°-90°	65.1	2.1
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°	830.9	27.2
0°-40°	1354.7	44.3
0°-60°	2383.3	78.0
0°-90°	3055.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3055.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1077	1077	1077	1077	1077	
5°	1080	1070	1074	1071	1069	103
15°	1038	1028	1034	1031	1029	293
25°	957	949	954	947	946	441
35°	844	836	841	834	833	528
45°	705	702	703	696	697	544
55°	552	549	547	543	543	493
65°	389	385	383	380	380	385
75°	219	216	215	213	211	232
85°	61	60	57	54	52	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1077	1077	1077	1077	1077
2.5°	1083	1073	1077	1075	1069
5°	1080	1070	1074	1071	1069
7.5°	1073	1063	1068	1065	1063
10°	1064	1054	1059	1056	1053
12.5°	1052	1042	1047	1044	1043
15°	1038	1028	1034	1031	1029
17.5°	1022	1012	1018	1016	1012
20°	1002	993	999	994	992
22.5°	981	973	978	971	970
25°	957	949	954	947	946
27.5°	932	924	929	922	919
30°	905	896	901	894	892
32.5°	874	867	871	865	863
35°	844	836	841	834	833
37.5°	813	805	809	801	802
40°	777	771	774	767	768
42.5°	743	738	740	732	733
45°	705	702	703	696	697
47.5°	669	664	665	659	659
50°	628	626	626	621	621
52.5°	591	588	587	582	583
55°	552	549	547	543	543
57.5°	511	509	506	502	503
60°	471	469	466	462	463
62.5°	430	427	425	423	421
65°	389	385	383	380	380
67.5°	347	344	342	340	340
70°	306	302	299	298	298
72.5°	263	259	256	256	252
75°	219	216	215	213	211
77.5°	178	175	174	172	170
80°	136	135	134	131	129
82.5°	98	97	95	92	90
85°	61	60	57	54	52
87.5°	26	25	21	18	17
90°	0	0	0	0	0

(END OF REPORT)