

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: G2-1708-204-8

Luminaire Tested: **HGL-S-BF-30L830-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: G2-1708-204-8
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: HGL-S-BF-30L830-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2581.9 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.25 / 1.28
Luminous Opening: Rectangular (W 0.21' x L: 4' x H: 0')
CIE Type: Direct

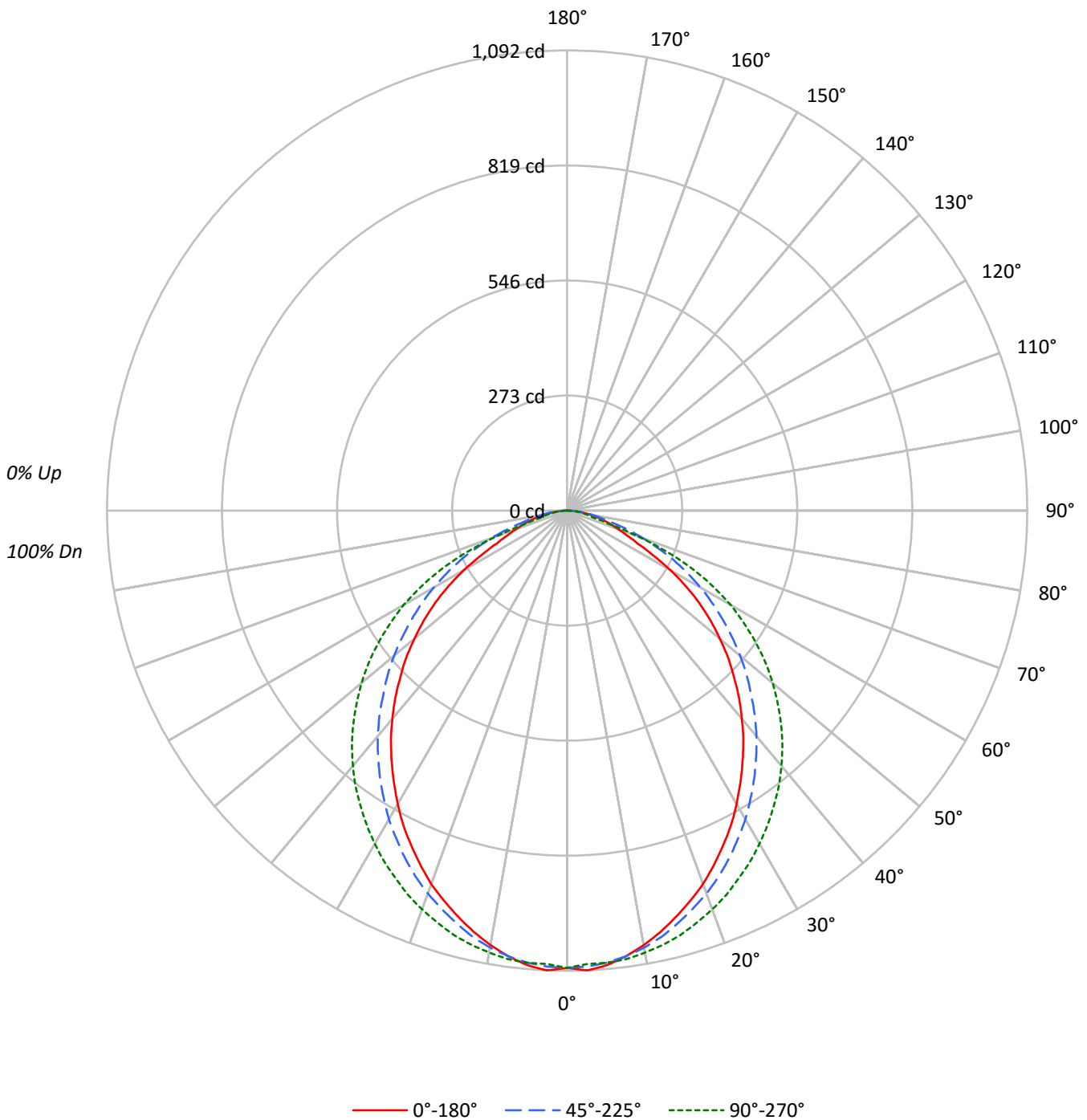
Input Watts (W): 23.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	54	50	59	53	49	47
6	72	59	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14015	14015	14015
5°	14042	13964	13964
10°	13732	13811	13969
15°	13346	13560	13934
20°	12962	13292	13842
25°	12485	12969	13725
30°	11992	12618	13617
35°	11448	12205	13482
40°	10876	11786	13338
45°	10230	11271	13116
50°	9505	10771	12800
55°	8625	10156	12318
60°	7337	9455	11573
65°	5624	8558	10086
70°	4872	7251	6685
75°	4492	5540	3244
80°	4017	4686	2975
85°	3409	4594	2668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.0	3.9
10°-20°	286.0	11.1
20°-30°	419.4	16.2
30°-40°	486.4	18.8
40°-50°	481.6	18.7
50°-60°	406.4	15.7
60°-70°	263.4	10.2
70°-80°	106.5	4.1
80°-90°	29.6	1.1
90°-100°	0.7	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°	807.4	31.3
0°-40°	1293.8	50.1
0°-60°	2181.8	84.5
0°-90°	2581.2	100.0
90°-120°	0.7	0.0
90°-150°	0.7	0.0
90°-180°	1.0	0.0
0°-180°	2581.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1085	1085	1085	1085	1085	
5°	1083	1072	1077	1076	1077	102
15°	998	993	1014	1032	1042	281
25°	876	876	910	938	963	403
35°	726	731	774	815	855	454
45°	560	572	617	669	718	432
55°	383	403	451	504	547	340
65°	184	213	280	314	330	191
75°	90	94	111	91	65	96
85°	23	27	31	25	18	25
90°	0	4	7	5	0	1
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1085	1085	1085	1085	1085
2.5°	1092	1080	1083	1081	1077
5°	1083	1072	1077	1076	1077
7.5°	1067	1058	1067	1070	1074
10°	1047	1040	1053	1060	1065
12.5°	1024	1018	1036	1047	1055
15°	998	993	1014	1032	1042
17.5°	971	967	991	1014	1025
20°	943	939	967	990	1007
22.5°	910	908	940	964	987
25°	876	876	910	938	963
27.5°	842	842	878	909	940
30°	804	807	846	880	913
32.5°	765	770	810	848	885
35°	726	731	774	815	855
37.5°	687	694	737	780	825
40°	645	654	699	744	791
42.5°	604	614	659	707	756
45°	560	572	617	669	718
47.5°	519	531	578	629	678
50°	473	488	536	589	637
52.5°	429	446	493	547	594
55°	383	403	451	504	547
57.5°	334	358	408	459	498
60°	284	313	366	413	448
62.5°	230	264	322	366	391
65°	184	213	280	314	330
67.5°	153	170	234	259	259
70°	129	138	192	198	177
72.5°	109	114	150	135	101
75°	90	94	111	91	65
77.5°	72	75	84	69	51
80°	54	58	63	53	40
82.5°	38	41	47	39	29
85°	23	27	31	25	18
87.5°	10	13	17	13	8
90°	0	4	7	5	0
92.5°	0	0	1	1	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)