

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: P257006

Luminaire Tested: **HGL-S-BF-80L930-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257006
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (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-80L930-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (504) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15362.2 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.25 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')
CIE Type: Direct

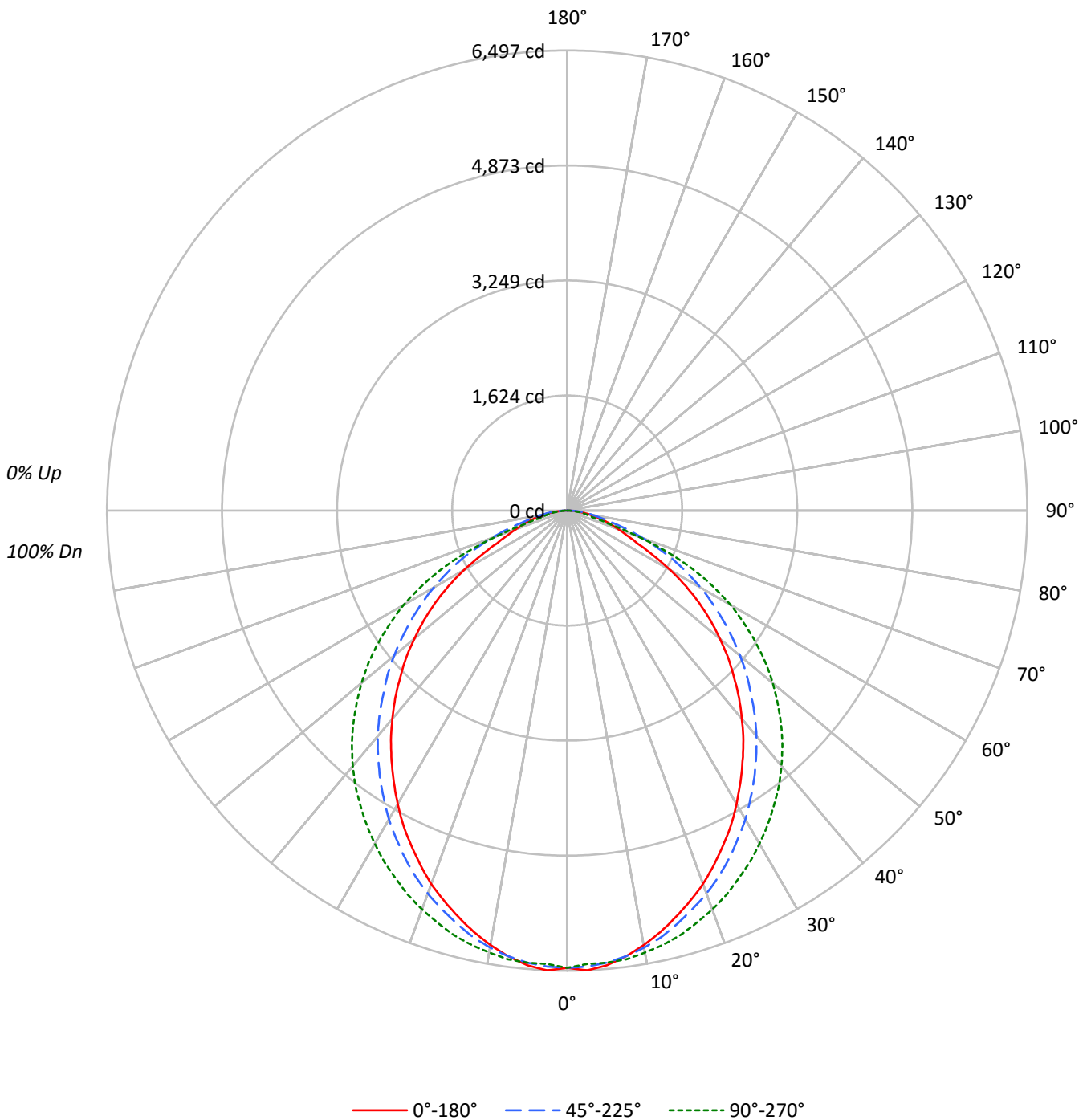
Input Watts (W): 212
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25269	25269	25269
5°	25316	25109	25082
10°	24756	24764	24993
15°	24057	24244	24833
20°	23364	23695	24567
25°	22502	23046	24252
30°	21611	22345	23949
35°	20629	21531	23587
40°	19595	20704	23198
45°	18429	19702	22659
50°	17120	18719	21938
55°	15532	17525	20907
60°	13209	16167	19401
65°	10122	14455	16629
70°	8763	12034	10762
75°	8073	8938	5029
80°	7208	7170	4300
85°	6086	6092	3209



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	606.8	3.9
10°-20°	1701.4	11.1
20°-30°	2495.7	16.2
30°-40°	2894.2	18.8
40°-50°	2865.5	18.7
50°-60°	2417.9	15.7
60°-70°	1567.0	10.2
70°-80°	633.9	4.1
80°-90°	175.8	1.1
90°-100°	4.1	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°	4803.9	31.3
0°-40°	7698.1	50.1
0°-60°	12981.4	84.5
0°-90°	15358.2	100.0
90°-120°	4.1	0.0
90°-150°	4.1	0.0
90°-180°	4.0	0.0
0°-180°	15362.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6456	6456	6456	6456	6456	
5°	6444	6378	6408	6402	6408	608
15°	5938	5908	6033	6140	6200	1673
25°	5212	5212	5414	5581	5730	2400
35°	4320	4349	4605	4849	5087	2701
45°	3332	3403	3671	3980	4272	2572
55°	2279	2398	2683	2999	3255	2025
65°	1095	1267	1666	1868	1964	1136
75°	536	559	660	541	387	569
85°	137	161	184	149	107	150
90°	0	24	42	30	0	8
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°	6455.7	6455.7	6455.7	6455.7	6455.7
2.5°	6497.4	6426.0	6443.8	6431.9	6408.1
5°	6443.8	6378.4	6408.1	6402.2	6408.1
7.5°	6348.6	6295.1	6348.6	6366.5	6390.3
10°	6229.6	6188.0	6265.3	6307.0	6336.7
12.5°	6092.8	6057.1	6164.2	6229.6	6277.2
15°	5938.1	5908.3	6033.3	6140.4	6199.9
17.5°	5777.4	5753.6	5896.4	6033.3	6098.7
20°	5610.8	5587.0	5753.6	5890.5	5991.6
22.5°	5414.5	5402.6	5593.0	5735.8	5872.6
25°	5212.2	5212.2	5414.5	5581.1	5729.8
27.5°	5009.9	5009.9	5224.1	5408.5	5593.0
30°	4783.8	4801.6	5033.7	5236.0	5432.3
32.5°	4551.7	4581.5	4819.5	5045.6	5265.7
35°	4319.7	4349.4	4605.3	4849.2	5087.2
37.5°	4087.6	4129.3	4385.1	4641.0	4908.7
40°	3837.7	3891.3	4159.0	4426.8	4706.4
42.5°	3593.8	3653.3	3921.0	4206.6	4498.2
45°	3332.0	3403.4	3671.1	3980.5	4272.1
47.5°	3088.0	3159.4	3439.1	3742.5	4034.1
50°	2814.3	2903.6	3189.2	3504.5	3790.1
52.5°	2552.5	2653.7	2933.3	3254.6	3534.3
55°	2278.8	2397.8	2683.4	2998.8	3254.6
57.5°	1987.3	2130.1	2427.6	2731.0	2963.1
60°	1689.8	1862.3	2177.7	2457.3	2665.6
62.5°	1368.5	1570.8	1915.9	2177.7	2326.4
65°	1094.8	1267.3	1666.0	1868.3	1963.5
67.5°	910.3	1011.5	1392.3	1541.0	1541.0
70°	767.5	821.1	1142.4	1178.1	1053.1
72.5°	648.5	678.3	892.5	803.2	600.9
75°	535.5	559.3	660.4	541.4	386.7
77.5°	428.4	446.2	499.8	410.5	303.4
80°	321.3	345.1	374.8	315.3	238.0
82.5°	226.1	243.9	279.6	232.0	172.5
85°	136.8	160.6	184.4	148.7	107.1
87.5°	59.5	77.3	101.1	77.3	47.6
90°	0.0	23.8	41.6	29.7	0.0
92.5°	0.0	0.0	5.9	5.9	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)