

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: P256955

Luminaire Tested: **HGL-S-BF-80L930-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256955
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-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (168) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

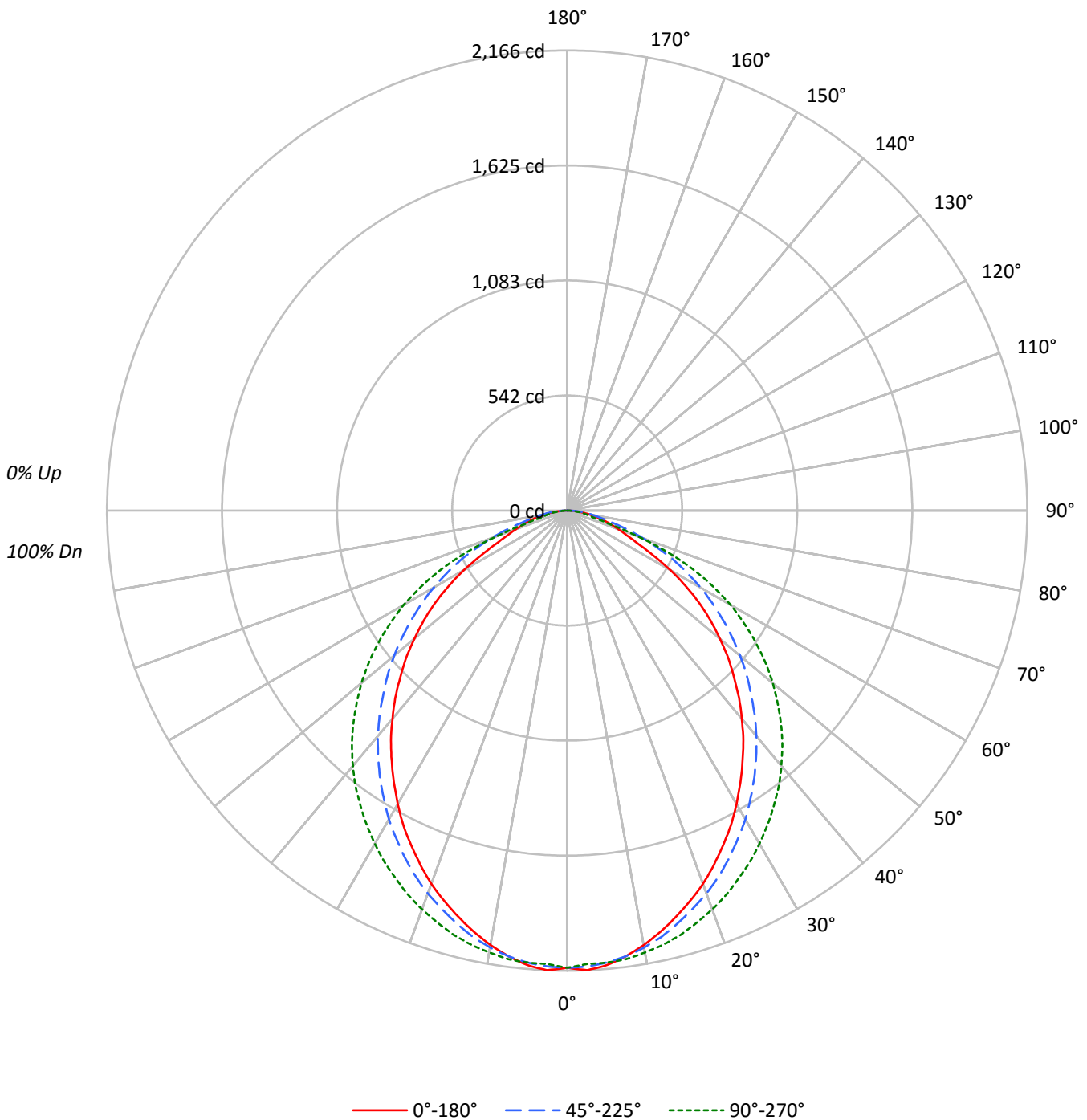
Lumens per Lamp: N/A
Luminaire Lumens: 5120.7 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.25 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.01')
CIE Type: Direct

Input Watts (W): 70.9
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				
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°	25269	25269	25269
5°	25312	25106	25082
10°	24748	24759	24993
15°	24047	24236	24833
20°	23350	23685	24567
25°	22484	23033	24252
30°	21590	22330	23949
35°	20605	21514	23587
40°	19567	20684	23198
45°	18399	19679	22659
50°	17086	18694	21939
55°	15495	17497	20907
60°	13172	16136	19400
65°	10085	14420	16629
70°	8722	11998	10761
75°	8024	8902	5029
80°	7141	7127	4299
85°	5973	6035	3209



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.3	3.9
10°-20°	567.1	11.1
20°-30°	831.9	16.2
30°-40°	964.7	18.8
40°-50°	955.2	18.7
50°-60°	806.0	15.7
60°-70°	522.3	10.2
70°-80°	211.3	4.1
80°-90°	58.6	1.1
90°-100°	1.4	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°	1601.3	31.3
0°-40°	2566.0	50.1
0°-60°	4327.2	84.5
0°-90°	5119.4	100.0
90°-120°	1.4	0.0
90°-150°	1.4	0.0
90°-180°	1.0	0.0
0°-180°	5120.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2152	2152	2152	2152	2152	
5°	2148	2126	2136	2134	2136	203
15°	1979	1969	2011	2047	2067	558
25°	1737	1737	1805	1860	1910	800
35°	1440	1450	1535	1616	1696	900
45°	1111	1134	1224	1327	1424	857
55°	760	799	894	1000	1085	675
65°	365	422	555	623	654	379
75°	178	186	220	180	129	190
85°	46	54	62	50	36	50
90°	0	8	14	10	0	3
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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CATALOG NUMBER: HGL-S-BF-80L930-UNV-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2151.9	2151.9	2151.9	2151.9	2151.9
2.5°	2165.8	2142.0	2147.9	2144.0	2136.0
5°	2147.9	2126.1	2136.0	2134.1	2136.0
7.5°	2116.2	2098.4	2116.2	2122.2	2130.1
10°	2076.5	2062.7	2088.4	2102.3	2112.2
12.5°	2030.9	2019.0	2054.7	2076.5	2092.4
15°	1979.4	1969.4	2011.1	2046.8	2066.6
17.5°	1925.8	1917.9	1965.5	2011.1	2032.9
20°	1870.3	1862.3	1917.9	1963.5	1997.2
22.5°	1804.8	1800.9	1864.3	1911.9	1957.5
25°	1737.4	1737.4	1804.8	1860.4	1909.9
27.5°	1670.0	1670.0	1741.4	1802.8	1864.3
30°	1594.6	1600.5	1677.9	1745.3	1810.8
32.5°	1517.2	1527.2	1606.5	1681.9	1755.2
35°	1439.9	1449.8	1535.1	1616.4	1695.7
37.5°	1362.5	1376.4	1461.7	1547.0	1636.2
40°	1279.2	1297.1	1386.3	1475.6	1568.8
42.5°	1197.9	1217.8	1307.0	1402.2	1499.4
45°	1110.7	1134.5	1223.7	1326.8	1424.0
47.5°	1029.3	1053.1	1146.4	1247.5	1344.7
50°	938.1	967.9	1063.1	1168.2	1263.4
52.5°	850.8	884.6	977.8	1084.9	1178.1
55°	759.6	799.3	894.5	999.6	1084.9
57.5°	662.4	710.0	809.2	910.3	987.7
60°	563.3	620.8	725.9	819.1	888.5
62.5°	456.2	523.6	638.6	725.9	775.5
65°	364.9	422.4	555.3	622.8	654.5
67.5°	303.4	337.2	464.1	513.7	513.7
70°	255.8	273.7	380.8	392.7	351.0
72.5°	216.2	226.1	297.5	267.7	200.3
75°	178.5	186.4	220.1	180.5	128.9
77.5°	142.8	148.7	166.6	136.8	101.1
80°	107.1	115.0	124.9	105.1	79.3
82.5°	75.4	81.3	93.2	77.3	57.5
85°	45.6	53.5	61.5	49.6	35.7
87.5°	19.8	25.8	33.7	25.8	15.9
90°	0.0	7.9	13.9	9.9	0.0
92.5°	0.0	0.0	2.0	2.0	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)