

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: NEO-RAY

Report Number: P242271

Luminaire Tested: **S122DR-S675D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DR-S675D930-X4F0-XX-UDD-F-W
Description: DEFINE 2 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2157.2 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular (W 0.15' x L: 3.88' x H: 0')
CIE Type: Direct

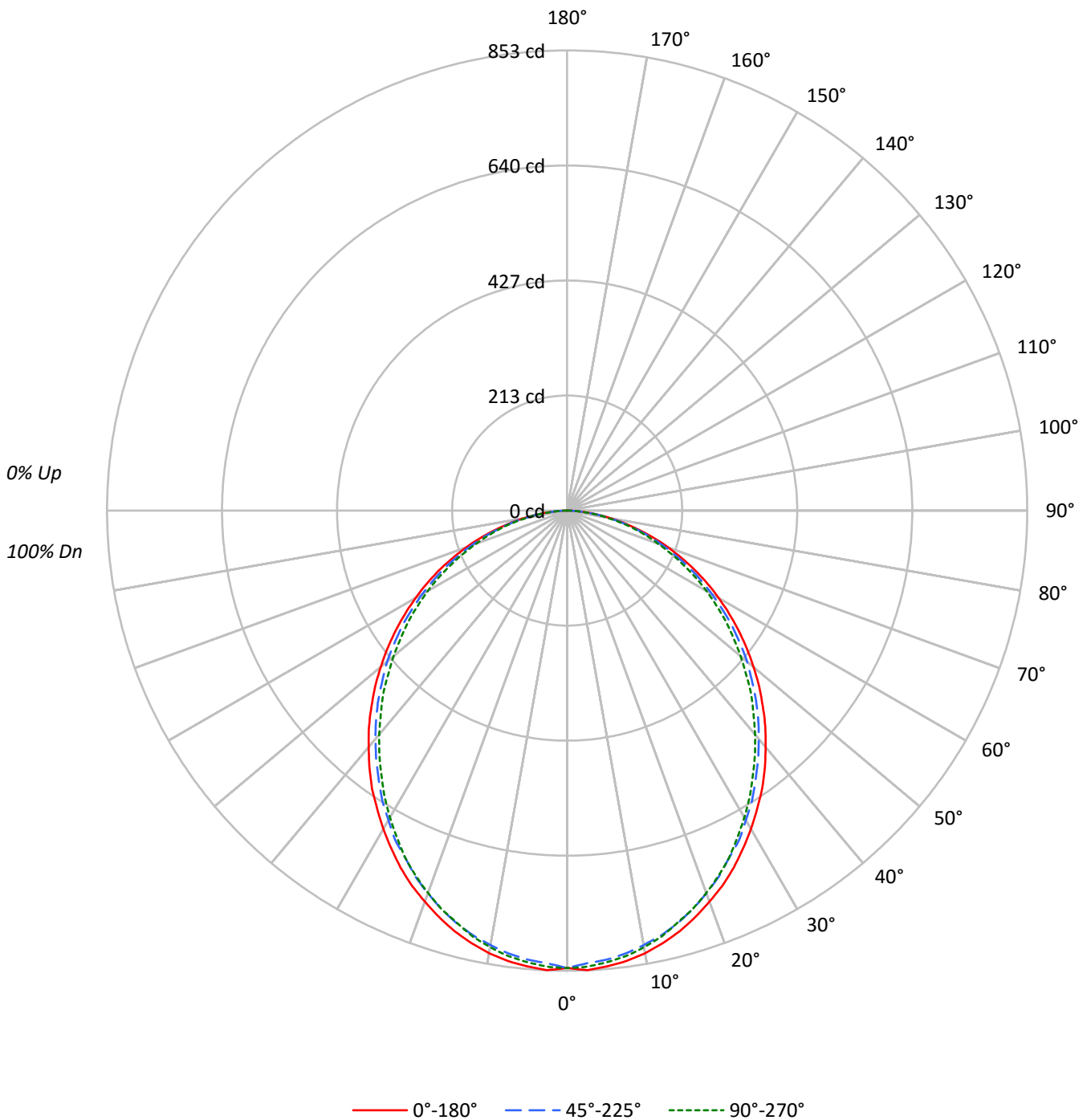
Input Watts (W): 26.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92		94	91	89		90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76		83	78	74		80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63	58	54	51
5	77	64	55	49	75	63	55	48	61	53	48		59	52	47		57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42		53	47	42		52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37		49	42	37		47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33		45	38	33		44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27		38	32	27		37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16151	16151	16151
5°	16212	15979	16073
10°	16115	15816	15895
15°	15916	15612	15594
20°	15634	15304	15288
25°	15353	14924	14924
30°	14991	14578	14453
35°	14654	14161	13954
40°	14230	13745	13482
45°	13814	13331	13003
50°	13362	12902	12443
55°	12888	12400	11939
60°	12362	11802	11368
65°	11795	11209	10695
70°	11077	10487	9991
75°	10082	9663	9420
80°	8940	8677	8227
85°	7300	6950	6229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	3.7
10°-20°	224.5	10.4
20°-30°	330.0	15.3
30°-40°	383.2	17.8
40°-50°	382.8	17.7
50°-60°	333.8	15.5
60°-70°	246.7	11.4
70°-80°	139.6	6.5
80°-90°	36.8	1.7
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°	634.3	29.4
0°-40°	1017.6	47.2
0°-60°	1734.1	80.4
0°-90°	2157.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2157.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	848	848	848	848	848	
5°	848	845	836	842	841	80
15°	807	802	792	795	791	227
25°	730	724	710	712	710	336
35°	630	622	609	604	600	394
45°	513	507	495	486	483	396
55°	388	383	373	364	360	347
65°	262	257	249	241	237	259
75°	137	135	131	126	128	146
85°	33	33	32	29	28	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	847.9	847.9	847.9	847.9	847.9
2.5°	852.8	848.7	839.8	847.9	846.3
5°	847.9	844.7	835.7	842.2	840.6
7.5°	842.2	837.3	828.3	834.9	833.2
10°	833.2	827.5	817.7	824.3	821.8
12.5°	821.0	816.1	806.3	810.4	808.8
15°	807.1	802.3	791.7	794.9	790.8
17.5°	790.0	785.1	774.5	778.6	774.5
20°	771.3	766.4	755.0	757.4	754.2
22.5°	752.5	745.2	734.6	734.6	733.0
25°	730.5	724.0	710.1	711.8	710.1
27.5°	706.1	700.3	689.7	687.3	683.2
30°	681.6	675.1	662.8	660.4	657.1
32.5°	655.5	650.6	637.6	632.7	629.4
35°	630.2	622.1	609.0	604.1	600.1
37.5°	601.7	594.4	581.3	575.6	571.5
40°	572.3	565.8	552.8	545.4	542.2
42.5°	543.8	537.3	524.2	516.1	511.2
45°	512.8	507.1	494.9	485.9	482.7
47.5°	482.7	477.0	463.9	454.9	450.0
50°	450.9	446.8	435.4	424.0	419.9
52.5°	419.9	414.2	403.6	394.6	388.9
55°	388.1	383.2	373.4	363.6	359.5
57.5°	356.3	352.2	341.6	331.8	328.6
60°	324.5	321.2	309.8	300.8	298.4
62.5°	293.5	287.8	279.6	271.5	268.2
65°	261.7	256.8	248.7	241.3	237.3
67.5°	229.1	225.0	217.7	212.0	208.7
70°	198.9	195.7	188.3	182.6	179.4
72.5°	168.0	164.7	160.6	154.9	152.5
75°	137.0	135.3	131.3	126.4	128.0
77.5°	109.3	106.0	104.4	101.9	99.5
80°	81.5	80.7	79.1	76.6	75.0
82.5°	55.4	55.4	54.6	51.4	51.4
85°	33.4	32.6	31.8	29.4	28.5
87.5°	14.7	13.0	11.4	9.0	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)