

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: P243460

Luminaire Tested: **S124DR-H575D830-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-84)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DR-H575D830-X4F0-XX-UDD-F-W
Description: DEFINE 4 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2129.3 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.31' x L: 3.88' x H: 0')
CIE Type: Direct

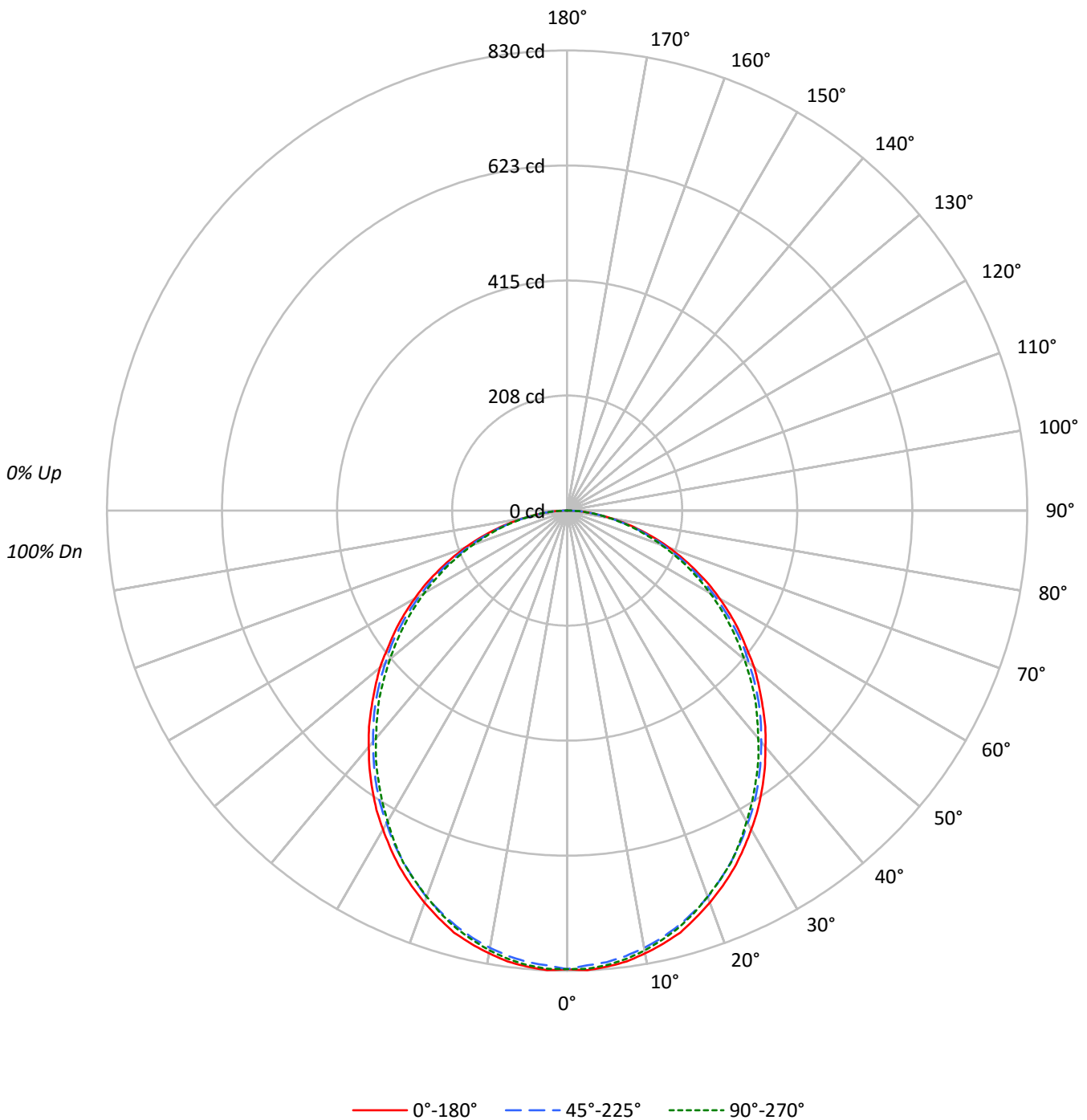
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	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	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7352	7352	7352
5°	7369	7296	7344
10°	7320	7229	7271
15°	7252	7135	7166
20°	7117	7016	7009
25°	6983	6859	6864
30°	6818	6687	6645
35°	6653	6522	6441
40°	6459	6318	6224
45°	6269	6142	6024
50°	6096	5919	5771
55°	5872	5715	5539
60°	5648	5456	5289
65°	5378	5195	5025
70°	5089	4863	4704
75°	4691	4506	4369
80°	4136	4064	3962
85°	3641	3641	3570



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	3.7
10°-20°	219.9	10.3
20°-30°	323.8	15.2
30°-40°	376.7	17.7
40°-50°	376.9	17.7
50°-60°	329.6	15.5
60°-70°	244.8	11.5
70°-80°	139.5	6.5
80°-90°	40.2	1.9
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°	621.6	29.2
0°-40°	998.4	46.9
0°-60°	1704.9	80.1
0°-90°	2129.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2129.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	827	827	827	827	827	
5°	826	824	818	824	823	78
15°	788	784	775	780	779	222
25°	712	709	699	701	700	328
35°	613	608	601	596	594	383
45°	499	497	489	481	479	385
55°	379	376	369	361	357	339
65°	256	254	247	242	239	254
75°	137	134	131	128	127	145
85°	36	35	36	34	35	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	827.1	827.1	827.1	827.1	827.1
2.5°	829.8	827.8	821.1	827.8	827.1
5°	825.8	824.4	817.7	823.8	823.1
7.5°	820.4	817.7	810.3	816.4	815.7
10°	811.0	809.0	800.9	806.9	805.6
12.5°	800.2	798.2	789.4	794.2	792.8
15°	788.1	784.1	775.3	780.0	778.7
17.5°	770.6	767.9	759.2	763.2	761.2
20°	752.4	749.1	741.7	742.3	741.0
22.5°	732.9	729.5	720.8	723.5	720.8
25°	712.0	708.7	699.3	701.3	699.9
27.5°	688.5	685.1	676.4	677.0	674.4
30°	664.3	660.2	651.5	650.8	647.4
32.5°	640.0	636.0	627.2	624.6	621.2
35°	613.1	607.7	601.0	595.6	593.6
37.5°	585.5	582.8	572.7	569.4	566.7
40°	556.6	553.9	544.5	539.8	536.4
42.5°	529.0	525.6	516.9	510.1	507.4
45°	498.7	496.7	488.6	481.2	479.2
47.5°	469.1	468.4	458.3	450.9	447.6
50°	440.8	436.8	428.0	421.3	417.3
52.5°	407.8	407.2	399.8	391.0	387.7
55°	378.9	376.2	368.8	360.7	357.4
57.5°	348.6	347.3	337.9	331.1	327.8
60°	317.7	315.0	306.9	300.8	297.5
62.5°	288.0	284.7	277.3	271.2	267.9
65°	255.7	253.7	247.0	241.6	238.9
67.5°	225.5	222.8	216.0	211.3	208.6
70°	195.8	191.8	187.1	183.1	181.0
72.5°	166.2	162.9	158.8	156.1	153.4
75°	136.6	133.9	131.2	128.5	127.2
77.5°	108.4	105.7	104.3	103.6	102.3
80°	80.8	79.4	79.4	78.7	77.4
82.5°	57.2	55.9	55.9	55.9	55.2
85°	35.7	35.0	35.7	34.3	35.0
87.5°	16.8	16.8	17.5	16.8	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)