

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: P243568

Luminaire Tested: **S124RDR-H575D835-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243568
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-65)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDR-H575D835-X4F0-XX-UDD-F-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2130.2 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.1 / 1.25
Luminous Opening: Rectangular (W 0.31' x L: 3.88' x H: 0')
CIE Type: Direct

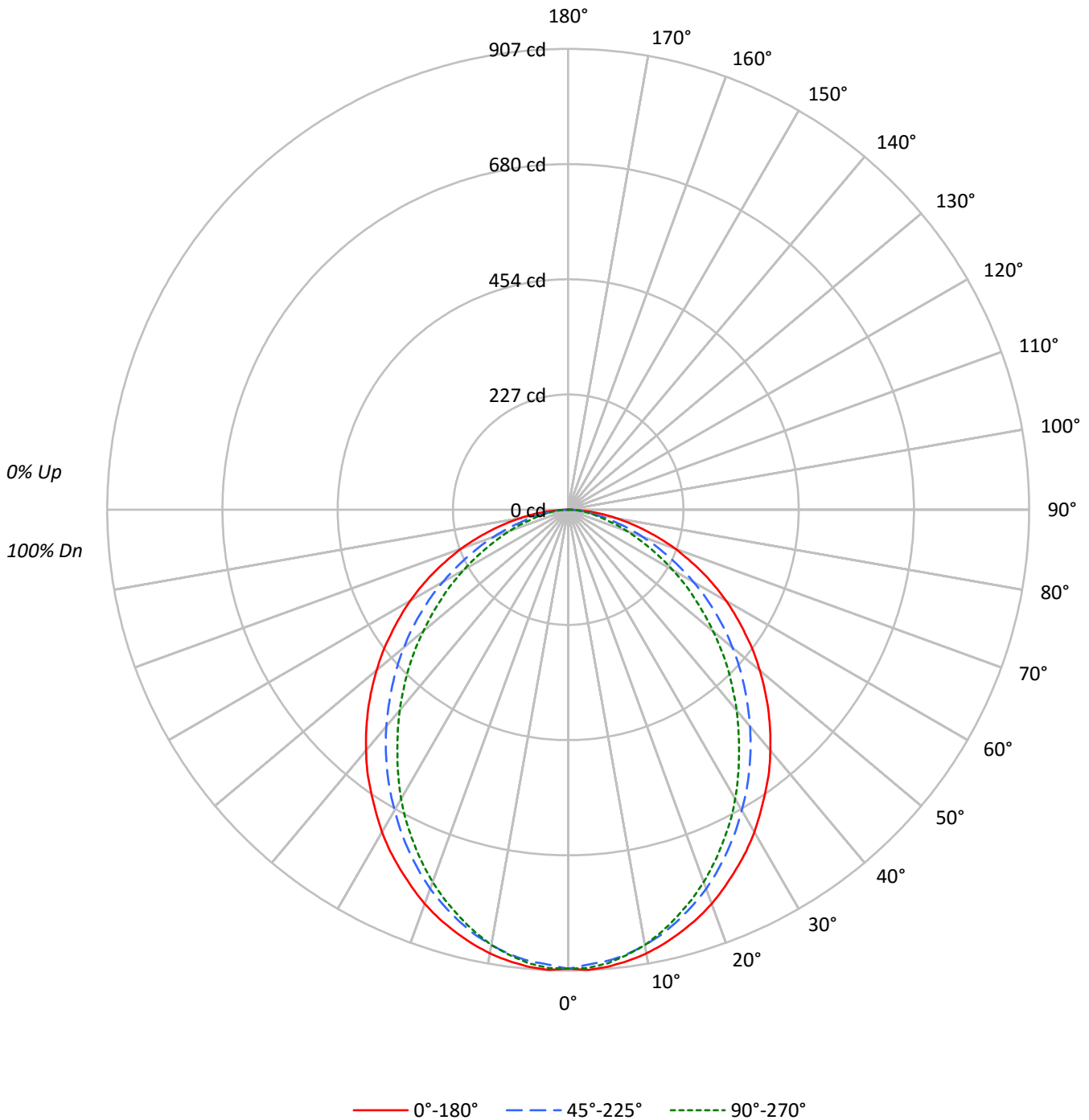
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	49	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8030	8030	8030
5°	8055	7954	7995
10°	8003	7853	7853
15°	7914	7700	7626
20°	7808	7511	7378
25°	7663	7271	7074
30°	7520	7007	6747
35°	7343	6750	6359
40°	7179	6460	5987
45°	6998	6151	5598
50°	6804	5836	5144
55°	6591	5475	4691
60°	6388	5061	4219
65°	6114	4570	3687
70°	5822	4036	3204
75°	5382	3366	2610
80°	4914	2626	2391
85°	4355	2519	2376



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.0	4.0
10°-20°	237.3	11.1
20°-30°	344.0	16.2
30°-40°	392.1	18.4
40°-50°	381.5	17.9
50°-60°	320.5	15.0
60°-70°	223.3	10.5
70°-80°	115.3	5.4
80°-90°	31.2	1.5
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°	666.3	31.3
0°-40°	1058.4	49.7
0°-60°	1760.4	82.6
0°-90°	2130.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2130.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	903	903	903	903	903	
5°	903	900	891	898	896	86
15°	860	853	837	835	829	243
25°	781	767	741	731	721	360
35°	677	656	622	599	586	424
45°	557	530	489	458	445	429
55°	425	398	353	317	303	381
65°	291	263	217	186	175	288
75°	157	133	98	82	76	167
85°	43	27	25	23	23	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	903.4	903.4	903.4	903.4	903.4
2.5°	906.7	904.0	896.0	903.4	902.7
5°	902.7	900.0	891.4	898.0	896.0
7.5°	896.0	892.7	882.7	887.4	884.0
10°	886.7	883.4	870.0	873.4	870.0
12.5°	874.7	870.0	855.4	856.0	850.7
15°	860.0	853.4	836.7	835.4	828.7
17.5°	844.0	835.4	816.0	812.7	805.4
20°	825.4	814.7	794.0	786.7	780.0
22.5°	804.0	791.4	768.7	760.0	751.3
25°	781.3	766.7	741.3	730.7	721.3
27.5°	758.0	740.7	713.3	700.0	690.7
30°	732.7	712.7	682.7	667.3	657.3
32.5°	704.7	684.7	653.3	634.7	622.0
35°	676.7	656.0	622.0	598.7	586.0
37.5°	649.3	626.0	589.3	565.3	550.7
40°	618.7	594.0	556.7	529.3	516.0
42.5°	588.0	562.7	522.7	494.0	479.3
45°	556.7	530.0	489.3	458.0	445.3
47.5°	524.7	498.0	456.0	423.3	408.7
50°	492.0	465.3	422.0	386.0	372.0
52.5°	460.0	432.0	388.7	352.0	337.3
55°	425.3	398.0	353.3	317.3	302.7
57.5°	392.0	363.3	320.0	283.3	271.3
60°	359.3	330.7	284.7	249.3	237.3
62.5°	324.7	296.0	250.7	216.7	206.0
65°	290.7	262.7	217.3	186.0	175.3
67.5°	256.0	230.7	186.7	156.7	148.0
70°	224.0	195.3	155.3	129.3	123.3
72.5°	190.0	164.7	126.0	104.7	100.0
75°	156.7	132.7	98.0	82.0	76.0
77.5°	126.0	102.7	74.0	60.7	60.7
80°	96.0	75.3	51.3	48.0	46.7
82.5°	68.0	48.7	38.0	35.3	34.7
85°	42.7	27.3	24.7	23.3	23.3
87.5°	20.7	12.7	12.7	12.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)