

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: P334241

Luminaire Tested: **S124RDS-S575D840-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-26)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDS-S575D840-4F0-1E-UDD-F
Description: DEFINE 4 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 575 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2188.2 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Direct

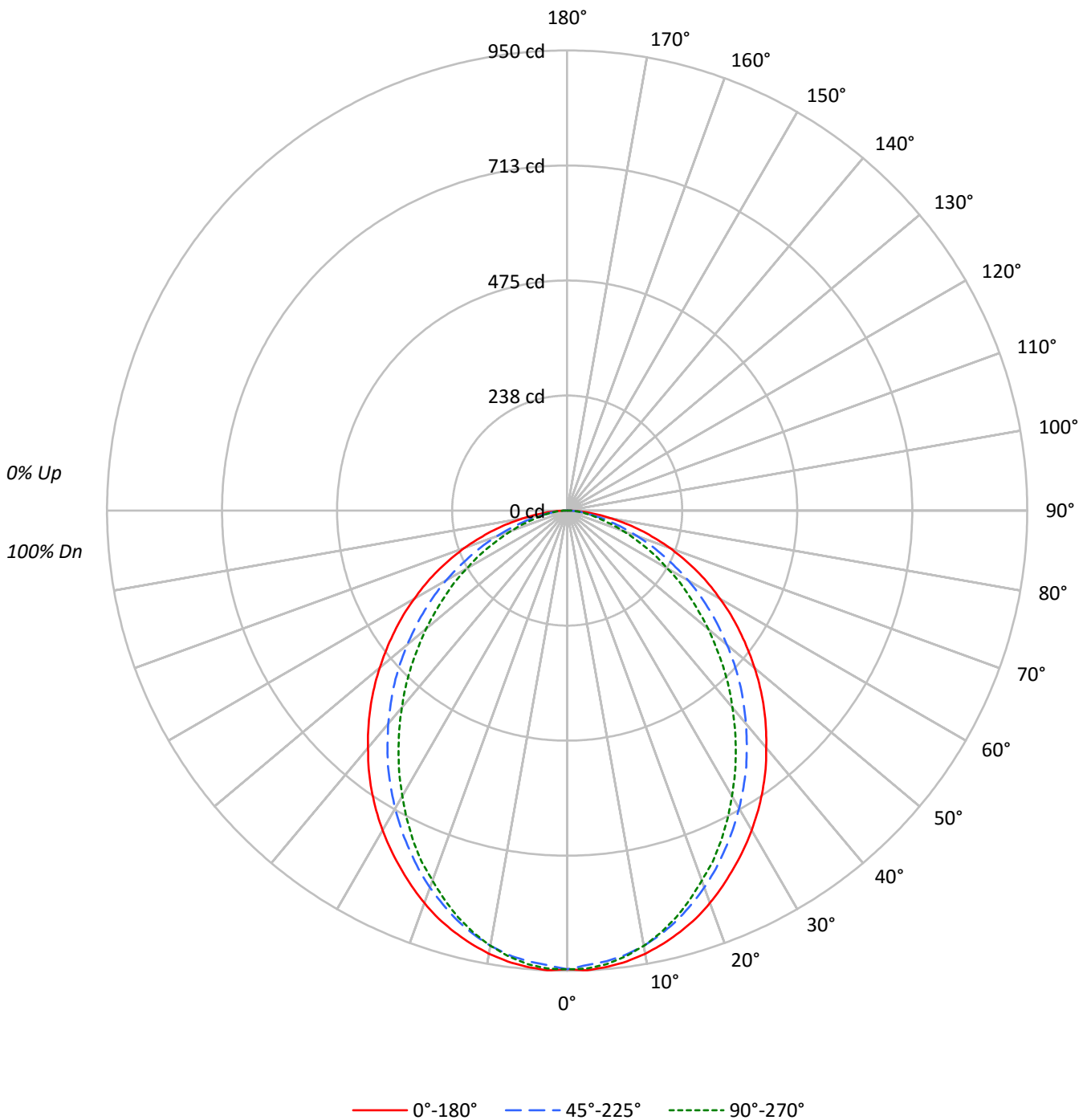
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	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	35	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7645	7645	7645
5°	7662	7568	7615
10°	7615	7478	7478
15°	7527	7321	7266
20°	7407	7114	6983
25°	7253	6872	6698
30°	7104	6618	6341
35°	6939	6353	5981
40°	6739	6052	5594
45°	6557	5754	5199
50°	6347	5409	4781
55°	6124	5051	4327
60°	5877	4660	3864
65°	5650	4170	3408
70°	5323	3628	2891
75°	4906	3007	2352
80°	4282	2292	2157
85°	3631	2084	1945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	4.1
10°-20°	248.3	11.3
20°-30°	358.5	16.4
30°-40°	406.3	18.6
40°-50°	392.3	17.9
50°-60°	326.1	14.9
60°-70°	225.1	10.3
70°-80°	113.7	5.2
80°-90°	28.9	1.3
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°	695.8	31.8
0°-40°	1102.1	50.4
0°-60°	1820.4	83.2
0°-90°	2188.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2188.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	947	947	947	947	947	
5°	946	943	934	941	940	90
15°	901	894	876	874	869	254
25°	814	801	772	759	752	375
35°	704	681	645	620	607	440
45°	574	548	504	468	455	443
55°	435	406	359	321	307	389
65°	296	265	218	187	178	292
75°	157	130	96	80	75	166
85°	39	25	22	21	21	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	947.0	947.0	947.0	947.0	947.0
2.5°	949.9	947.0	939.0	947.0	946.3
5°	945.5	942.6	933.9	941.2	939.7
7.5°	939.0	936.1	925.2	930.3	928.1
10°	928.9	925.2	912.2	915.1	912.2
12.5°	915.8	911.5	895.5	897.0	892.6
15°	900.6	894.1	875.9	874.5	869.4
17.5°	883.2	873.8	852.7	849.1	841.9
20°	862.2	852.7	828.1	822.3	812.8
22.5°	839.0	828.1	801.2	791.8	784.6
25°	814.3	801.2	771.5	759.2	751.9
27.5°	788.9	773.0	741.8	727.3	717.1
30°	762.1	744.0	709.9	691.8	680.2
32.5°	733.8	712.8	677.3	655.5	644.6
35°	704.1	680.9	644.6	620.0	606.9
37.5°	672.9	649.0	609.1	582.3	569.2
40°	639.5	615.6	574.3	543.8	530.8
42.5°	607.6	582.3	538.8	507.6	493.8
45°	574.3	547.5	504.0	468.4	455.4
47.5°	540.2	512.7	467.7	430.7	416.2
50°	505.4	477.1	430.7	394.5	380.7
52.5°	469.9	442.3	394.5	357.5	343.0
55°	435.1	406.1	358.9	321.2	307.4
57.5°	401.0	370.5	324.1	285.7	275.5
60°	364.0	335.0	288.6	250.9	239.3
62.5°	330.6	300.2	252.3	218.3	209.6
65°	295.8	264.7	218.3	187.1	178.4
67.5°	259.6	229.9	186.4	158.8	148.6
70°	225.5	195.1	153.7	129.8	122.5
72.5°	189.3	162.4	124.0	104.4	97.9
75°	157.3	130.5	96.4	79.8	75.4
77.5°	124.0	100.8	71.8	60.2	58.7
80°	92.1	71.1	49.3	47.1	46.4
82.5°	64.5	45.7	35.5	34.1	33.4
85°	39.2	24.7	22.5	21.0	21.0
87.5°	16.7	10.9	10.2	9.4	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)