

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: P334438

Luminaire Tested: **S125RDW-S1090D940-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334438  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125RDW-S1090D940-4F0-1E-UDD-F  
Description: DEFINE 5 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT/SURFACE/WALL MOUNT, 1090 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3557.2 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Direct

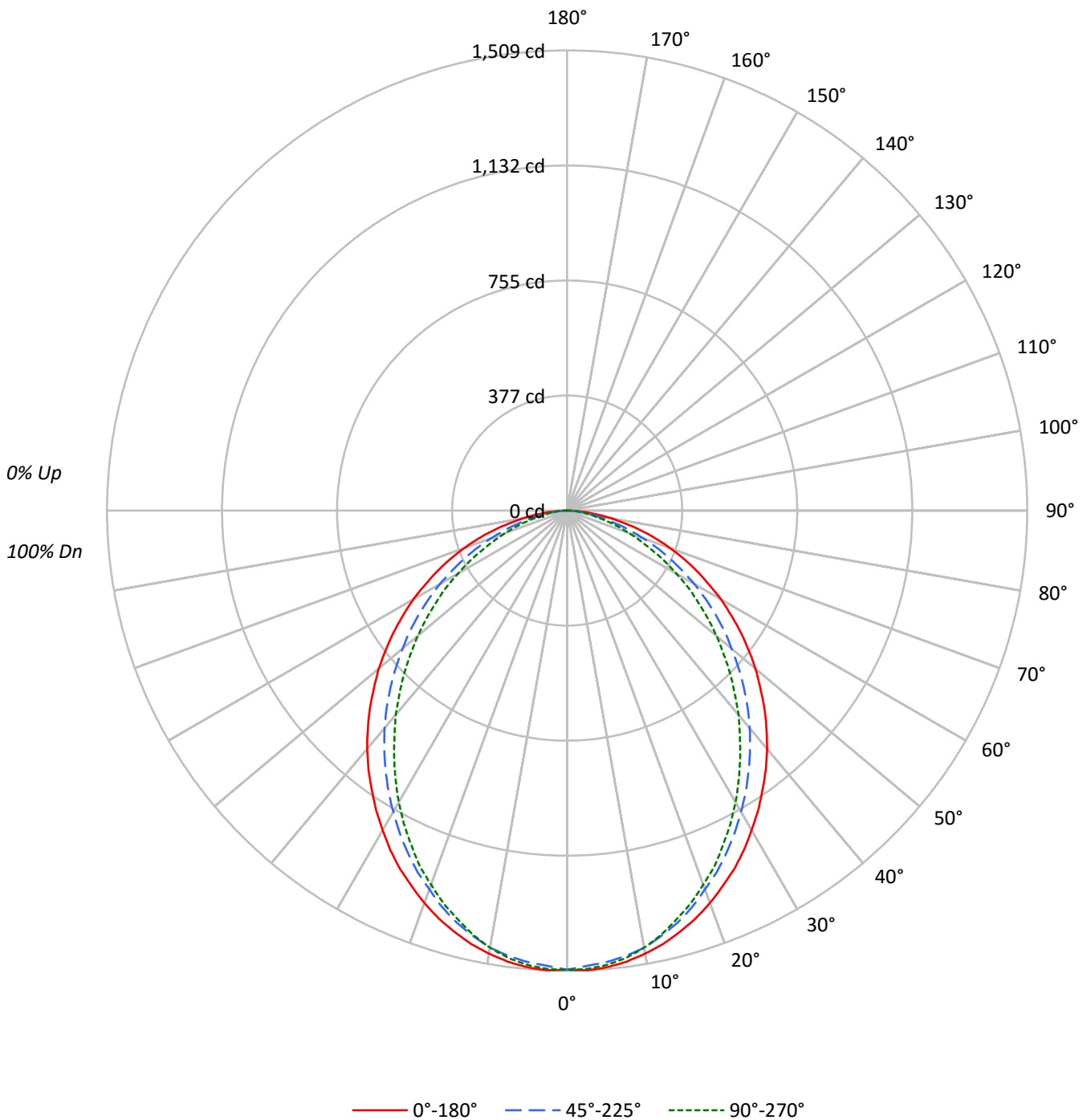
Input Watts (W): 34.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87					85				
2	100	92	86	80	98	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	48	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					29				
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°	9724	9724	9724
5°	9746	9636	9695
10°	9672	9546	9546
15°	9557	9352	9276
20°	9410	9082	8972
25°	9238	8816	8622
30°	9023	8506	8235
35°	8804	8185	7800
40°	8599	7852	7373
45°	8351	7478	6907
50°	8100	7072	6421
55°	7811	6684	5902
60°	7520	6213	5346
65°	7176	5665	4710
70°	6785	4981	4058
75°	6243	4200	3376
80°	5497	3299	2834
85°	4631	2697	2527



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.7	4.0
10°-20°	396.0	11.1
20°-30°	574.2	16.1
30°-40°	654.2	18.4
40°-50°	637.6	17.9
50°-60°	536.6	15.1
60°-70°	376.0	10.6
70°-80°	192.8	5.4
80°-90°	48.1	1.4
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°	1111.9	31.3
0°-40°	1766.1	49.6
0°-60°	2940.3	82.7
0°-90°	3557.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3557.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1506	1506	1506	1506	1506	
5°	1503	1499	1486	1498	1495	143
15°	1429	1423	1399	1398	1387	403
25°	1296	1279	1237	1222	1210	597
35°	1117	1089	1038	1005	989	699
45°	914	881	819	773	756	705
55°	694	657	594	542	524	620
65°	470	431	371	325	308	465
75°	250	216	168	143	135	264
85°	62	42	36	35	34	72
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1505.6	1505.6	1505.6	1505.6	1505.6
2.5°	1509.0	1505.6	1494.2	1505.6	1504.5
5°	1503.3	1498.8	1486.3	1497.6	1495.4
7.5°	1491.9	1487.4	1472.6	1481.7	1479.4
10°	1474.9	1471.5	1455.6	1459.0	1455.6
12.5°	1455.6	1451.0	1428.3	1430.5	1424.8
15°	1429.4	1422.6	1398.7	1397.6	1387.3
17.5°	1402.1	1391.9	1363.4	1357.8	1349.8
20°	1369.1	1357.8	1321.4	1315.7	1305.4
22.5°	1332.7	1321.4	1282.7	1270.2	1262.2
25°	1296.4	1279.3	1237.2	1222.4	1209.9
27.5°	1255.4	1234.9	1190.6	1171.3	1158.8
30°	1209.9	1188.3	1140.6	1114.4	1104.2
32.5°	1165.6	1139.4	1090.5	1061.0	1047.3
35°	1116.7	1089.4	1038.2	1005.2	989.3
37.5°	1070.1	1037.1	984.8	946.1	930.2
40°	1020.0	985.9	931.3	888.1	874.5
42.5°	967.7	932.5	875.6	834.7	813.1
45°	914.3	881.3	818.7	773.3	756.2
47.5°	858.5	824.4	761.9	715.3	695.9
50°	806.2	768.7	703.9	656.1	639.1
52.5°	749.4	710.7	650.5	598.1	581.1
55°	693.7	657.3	593.6	542.4	524.2
57.5°	636.8	598.1	536.7	486.7	470.8
60°	582.2	542.4	481.0	431.0	413.9
62.5°	524.2	486.7	424.2	378.7	361.6
65°	469.6	431.0	370.7	325.2	308.2
67.5°	415.1	376.4	318.4	275.2	261.5
70°	359.3	320.7	263.8	228.6	214.9
72.5°	304.8	267.2	214.9	183.1	175.1
75°	250.2	216.1	168.3	143.3	135.3
77.5°	194.5	167.2	127.4	108.0	101.2
80°	147.8	120.5	88.7	78.5	76.2
82.5°	102.3	78.5	59.1	55.7	54.6
85°	62.5	42.1	36.4	35.3	34.1
87.5°	26.2	18.2	17.1	17.1	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)