

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1035548

Luminaire Tested: S125DIW-B850D1050UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035548
REPORT IS A COMBINATION OF REPORTS P1004091 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B850D1050UB40-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

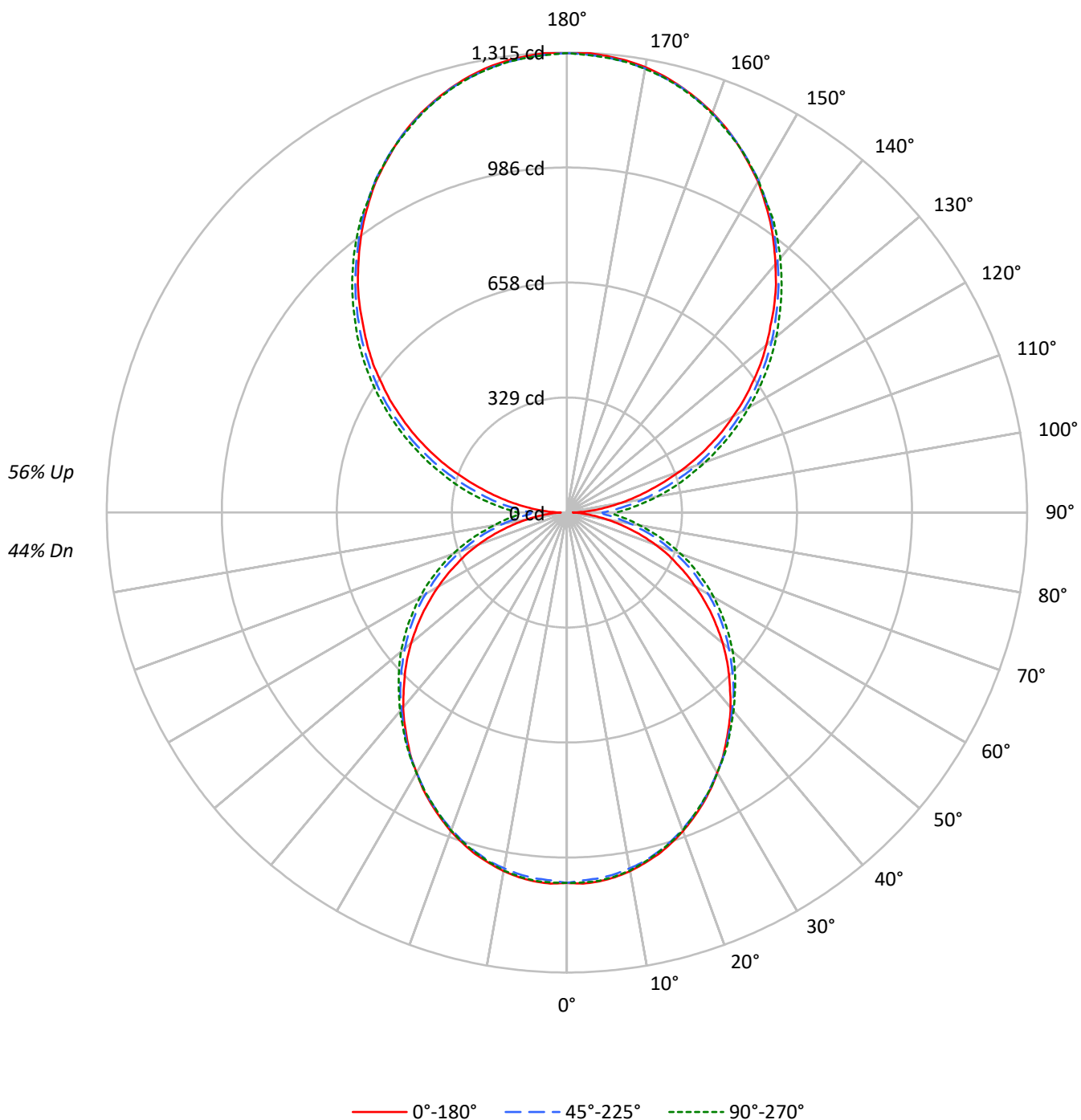
Lumens per Lamp: N/A
Luminaire Lumens: 6947.0 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.4
Input Voltage (V):
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: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	96	91	87	83	88	84	80	77	69	67	64	56	54	53	44	43	42
2	87	79	73	68	79	73	67	63	60	56	53	49	46	43	38	36	35
3	79	69	62	56	72	64	57	52	53	48	44	43	39	36	34	31	29
4	72	61	53	47	66	56	49	44	47	42	37	38	34	31	30	27	25
5	66	55	46	40	60	50	43	37	42	36	32	34	30	27	27	24	22
6	61	49	41	35	56	45	38	32	38	32	28	31	27	23	24	21	19
7	56	44	36	30	51	41	33	28	34	28	24	28	24	21	22	19	17
8	52	40	32	27	48	37	30	25	31	26	22	26	21	18	20	17	15
9	49	36	29	24	44	34	27	22	28	23	19	23	19	16	19	16	13
10	45	33	26	21	41	31	24	20	26	21	17	22	18	15	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6784	6784	6784
5°	6795	6642	6658
10°	6744	6507	6488
15°	6662	6348	6278
20°	6551	6158	6071
25°	6420	5956	5819
30°	6261	5735	5590
35°	6112	5531	5379
40°	5961	5317	5167
45°	5790	5131	4976
50°	5627	4929	4804
55°	5430	4737	4603
60°	5215	4517	4398
65°	4989	4286	4167
70°	4731	3977	3926
75°	4325	3670	3633
80°	3791	3298	3308
85°	3265	3003	3137

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5790 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	1.4
10°-20°	284.4	4.1
20°-30°	422.9	6.1
30°-40°	500.9	7.2
40°-50°	517.8	7.5
50°-60°	477.0	6.9
60°-70°	385.6	5.6
70°-80°	258.0	3.7
80°-90°	135.4	1.9
90°-100°	162.5	2.3
100°-110°	314.8	4.5
110°-120°	477.0	6.9
120°-130°	600.2	8.6
130°-140°	658.2	9.5
140°-150°	638.0	9.2
150°-160°	534.4	7.7
160°-170°	355.2	5.1
170°-180°	124.3	1.8
0°-30°	807.6	11.6
0°-40°	1308.5	18.8
0°-60°	2303.4	33.2
0°-90°	3082.5	44.4
90°-120°	954.3	13.7
90°-150°	2850.7	41.0
90°-180°	3865.0	55.6
0°-180°	6947.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1059	1059	1059	1059	1059	
5°	1059	1057	1050	1058	1057	100
15°	1011	1012	1005	1011	1007	285
25°	919	922	916	920	914	423
35°	795	802	799	802	802	498
45°	655	666	672	679	680	505
55°	504	520	537	548	552	450
65°	347	371	396	411	415	344
75°	191	218	251	272	277	202
85°	57	91	128	150	159	60
90°	18	59	102	130	141	16
95°	80	109	154	184	194	80
105°	242	264	301	328	338	258
115°	447	458	487	505	510	442
125°	647	652	674	688	693	579
135°	838	843	851	865	866	646
145°	1014	1017	1020	1025	1026	634
155°	1159	1159	1160	1164	1159	534
165°	1260	1258	1259	1263	1257	356
175°	1310	1306	1306	1312	1305	125
180°	1313	1313	1313	1313	1313	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1058.8	1058.8	1058.8	1058.8	1058.8
2.5°	1061.9	1059.8	1052.6	1059.8	1058.8
5°	1058.8	1056.7	1049.5	1057.8	1056.7
7.5°	1051.5	1050.5	1043.2	1050.5	1049.5
10°	1041.2	1041.2	1032.9	1040.1	1039.1
12.5°	1026.6	1027.7	1021.4	1026.6	1023.5
15°	1011.1	1012.1	1004.8	1011.1	1006.9
17.5°	991.3	993.4	986.1	991.3	988.2
20°	969.5	971.6	964.3	967.5	967.5
22.5°	944.6	948.8	940.5	944.6	941.5
25°	918.7	921.8	915.6	919.7	914.5
27.5°	890.6	894.8	887.5	890.6	888.6
30°	858.5	864.7	858.5	860.5	859.5
32.5°	829.4	834.6	830.4	832.5	831.5
35°	795.1	802.4	799.3	802.4	802.4
37.5°	761.9	768.2	767.1	771.3	770.2
40°	727.7	736.0	734.9	739.1	741.2
42.5°	690.3	701.7	704.8	710.0	710.0
45°	655.0	666.4	671.6	678.9	679.9
47.5°	618.7	629.1	637.4	647.7	649.8
50°	581.3	592.7	604.1	615.6	618.7
52.5°	541.9	556.4	570.9	583.4	585.5
55°	503.5	520.1	536.7	548.1	552.2
57.5°	464.0	483.7	502.4	514.9	518.0
60°	424.6	445.3	466.1	481.7	484.8
62.5°	386.2	406.9	429.8	447.4	451.6
65°	346.7	370.6	395.5	411.1	415.2
67.5°	310.4	333.2	358.1	376.8	382.0
70°	269.9	293.8	320.8	340.5	346.7
72.5°	230.4	255.4	285.5	307.3	311.4
75°	191.0	218.0	251.2	272.0	277.2
77.5°	152.6	183.7	214.9	237.7	241.9
80°	117.3	148.4	183.7	206.6	210.7
82.5°	85.1	118.3	154.7	176.5	184.8
85°	57.1	91.3	127.7	150.5	158.8
87.5°	36.3	69.5	104.8	128.7	136.0
90°	17.6	59.0	101.5	130.5	140.8
92.5°	45.2	80.4	126.0	155.9	165.3
95°	79.9	109.0	154.5	184.4	193.8
97.5°	114.7	140.6	189.1	217.1	225.4
100°	154.5	176.3	222.8	253.8	262.1
102.5°	197.4	222.2	259.5	290.5	299.8
105°	242.3	264.1	301.3	328.3	338.5
107.5°	291.4	311.0	346.2	370.1	376.3
110°	342.5	360.0	392.2	414.9	421.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	395.6	407.0	439.1	458.8	464.0
115°	446.6	458.0	487.1	504.8	509.9
117.5°	498.8	505.0	533.0	551.7	554.8
120°	547.8	556.1	581.0	598.6	600.8
122.5°	600.0	602.0	627.9	643.4	646.7
125°	647.0	652.0	673.8	688.4	692.6
127.5°	698.0	700.1	718.7	733.3	737.4
130°	744.0	748.1	764.6	778.1	781.3
132.5°	789.0	798.2	807.6	821.0	822.1
135°	838.0	843.1	851.4	864.9	866.0
137.5°	884.0	889.1	895.3	908.7	907.8
140°	926.9	932.0	936.1	949.6	948.6
142.5°	970.8	973.9	978.0	988.3	987.4
145°	1013.7	1016.8	1019.9	1025.1	1026.1
147.5°	1052.6	1055.6	1057.7	1062.9	1056.8
150°	1092.4	1091.4	1095.5	1095.5	1094.5
152.5°	1125.1	1127.2	1128.2	1131.3	1127.2
155°	1158.9	1158.9	1159.9	1164.0	1158.9
157.5°	1189.5	1187.5	1188.5	1192.6	1185.4
160°	1216.1	1213.0	1214.0	1218.1	1213.0
162.5°	1239.6	1237.5	1237.5	1242.7	1236.5
165°	1260.0	1258.0	1259.0	1263.1	1257.0
167.5°	1278.4	1274.3	1274.3	1280.5	1274.3
170°	1292.7	1288.6	1288.6	1294.8	1287.6
172.5°	1303.0	1298.9	1298.9	1305.0	1298.9
175°	1310.1	1306.0	1306.0	1312.1	1305.0
177.5°	1315.2	1311.1	1310.1	1316.2	1309.1
180°	1313.2	1313.2	1313.2	1313.2	1313.2

(END OF REPORT)