

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: P1026987

Luminaire Tested: S125DIP-B850D1090UB2750-4F0-XX-W2A-D_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026987
REPORT IS A COMBINATION OF REPORTS P1002436 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D1090UB2750-4F0-XX-W2A-D_4000K
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

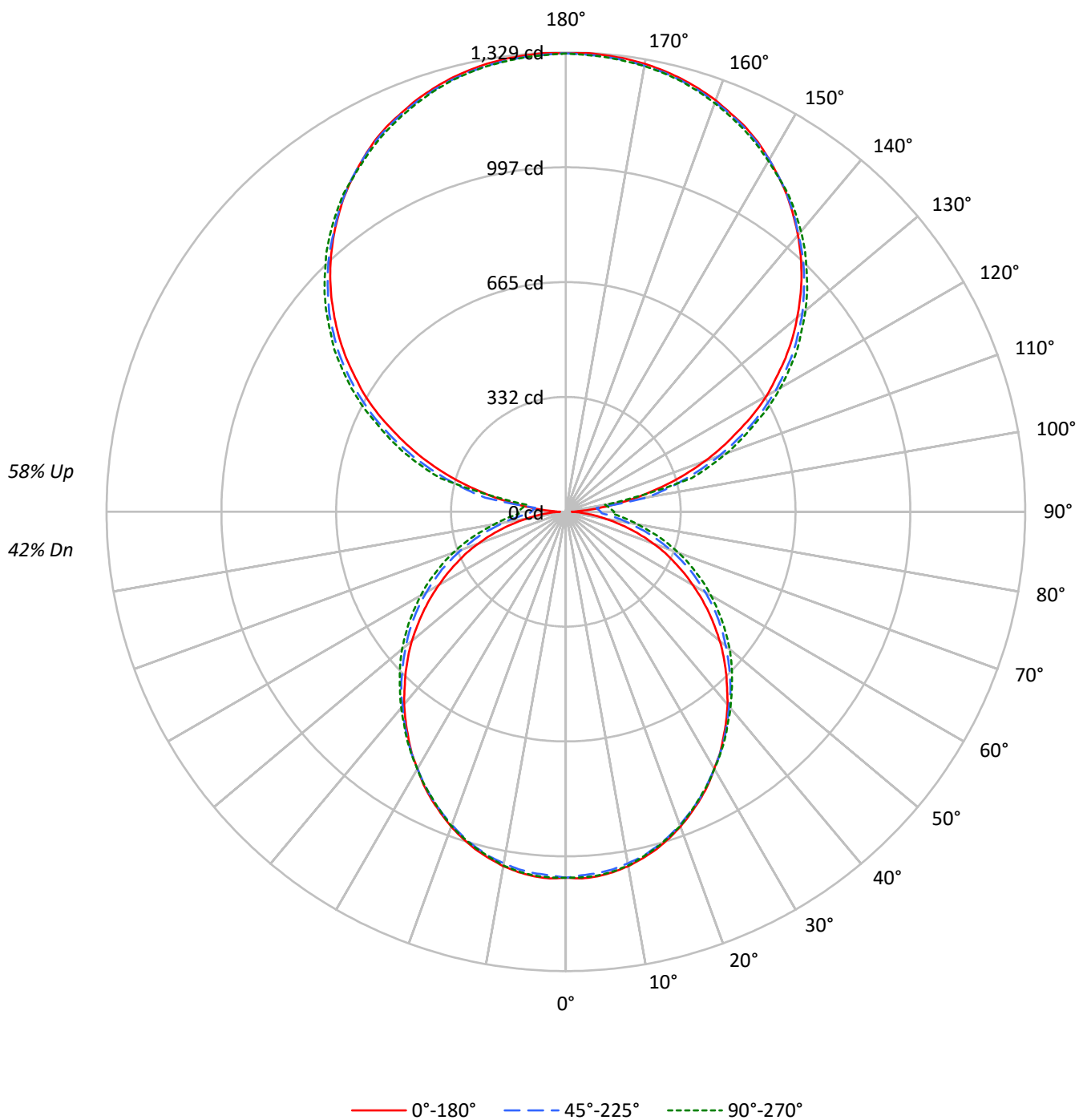
Lumens per Lamp: N/A
Luminaire Lumens: 7355.0 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49
1	95	91	87	83	87	83	79	76	68	66	63	55	53	51	42	41	40
2	87	79	73	67	79	72	67	62	59	55	52	48	45	42	37	35	33
3	79	69	62	56	71	63	57	52	52	47	43	42	38	35	32	30	28
4	72	61	53	47	65	56	49	43	46	41	37	37	33	30	29	26	24
5	66	54	46	40	60	50	43	37	41	36	32	33	29	26	26	23	21
6	61	49	40	35	55	45	37	32	37	31	27	30	26	23	23	20	18
7	56	44	36	30	51	40	33	28	33	28	24	27	23	20	21	18	16
8	52	40	32	27	47	36	30	25	30	25	21	25	21	18	19	17	14
9	48	36	29	24	44	33	27	22	28	23	19	23	19	16	18	15	13
10	45	33	26	21	41	30	24	20	26	20	17	21	17	14	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	3.9
20°-30°	422.9	5.8
30°-40°	500.9	6.8
40°-50°	517.8	7.0
50°-60°	477.0	6.5
60°-70°	385.6	5.2
70°-80°	258.0	3.5
80°-90°	135.3	1.8
90°-100°	120.1	1.6
100°-110°	354.6	4.8
110°-120°	576.0	7.8
120°-130°	712.7	9.7
130°-140°	753.1	10.2
140°-150°	700.0	9.5
150°-160°	564.8	7.7
160°-170°	365.3	5.0
170°-180°	126.0	1.7
0°-30°	807.6	11.0
0°-40°	1308.5	17.8
0°-60°	2303.4	31.3
0°-90°	3082.4	41.9
90°-120°	1050.7	14.3
90°-150°	3216.6	43.7
90°-180°	4273.0	58.1
0°-180°	7355.0	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	101	130	140	14
95°	70	94	92	119	126	79
105°	298	319	350	371	377	316
115°	549	561	589	604	604	544
125°	776	782	802	815	817	693
135°	964	969	974	986	985	744
145°	1117	1118	1118	1124	1122	698
155°	1229	1223	1225	1228	1220	566
165°	1296	1291	1292	1297	1290	366
175°	1326	1320	1321	1329	1320	126
180°	1326	1326	1326	1326	1326	

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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	58.6	100.8	129.6	139.9
92.5°	33.2	54.4	96.7	124.4	132.7
95°	69.5	93.6	91.5	119.2	126.5
97.5°	117.7	148.5	89.3	113.1	121.3
100°	175.5	200.3	237.4	112.8	115.1
102.5°	234.5	258.1	292.3	315.0	238.7
105°	298.3	318.9	350.0	370.8	377.0
107.5°	364.1	378.6	410.7	432.5	434.7
110°	428.0	440.4	471.5	488.2	496.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	488.9	501.2	530.2	544.9	550.3
115°	548.8	561.0	589.0	603.7	604.0
117.5°	611.7	616.9	646.7	658.5	663.7
120°	670.6	672.7	699.6	715.2	716.6
122.5°	721.7	727.6	751.4	766.1	766.5
125°	775.8	781.6	802.4	815.0	817.3
127.5°	826.8	830.7	847.3	860.9	859.3
130°	874.0	877.9	893.4	904.9	905.2
132.5°	920.1	926.0	933.5	948.0	947.2
135°	964.4	969.2	974.5	986.0	985.3
137.5°	1005.7	1010.5	1012.7	1025.1	1024.4
140°	1044.9	1046.8	1046.9	1060.3	1058.5
142.5°	1081.2	1081.2	1083.2	1092.5	1090.8
145°	1116.6	1117.6	1117.6	1123.8	1122.0
147.5°	1147.1	1147.1	1148.0	1151.1	1146.3
150°	1176.5	1174.6	1176.5	1178.5	1171.6
152.5°	1205.1	1200.1	1202.1	1204.1	1197.2
155°	1228.6	1222.7	1224.7	1227.7	1219.8
157.5°	1247.3	1244.4	1244.4	1247.3	1239.5
160°	1267.0	1261.1	1262.1	1266.0	1258.1
162.5°	1282.7	1276.8	1277.8	1283.7	1274.8
165°	1296.5	1290.6	1291.5	1297.4	1289.6
167.5°	1307.3	1301.4	1302.4	1309.2	1300.4
170°	1316.1	1309.2	1310.2	1318.1	1309.2
172.5°	1322.0	1315.1	1317.1	1324.0	1315.1
175°	1325.9	1320.1	1321.0	1328.9	1320.1
177.5°	1328.9	1323.0	1324.0	1330.9	1323.0
180°	1325.9	1325.9	1325.9	1325.9	1325.9

(END OF REPORT)