

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: P1027505

Luminaire Tested: S125DIP-B1090D850UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027505
REPORT IS A COMBINATION OF REPORTS P1001495 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D850UB35-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

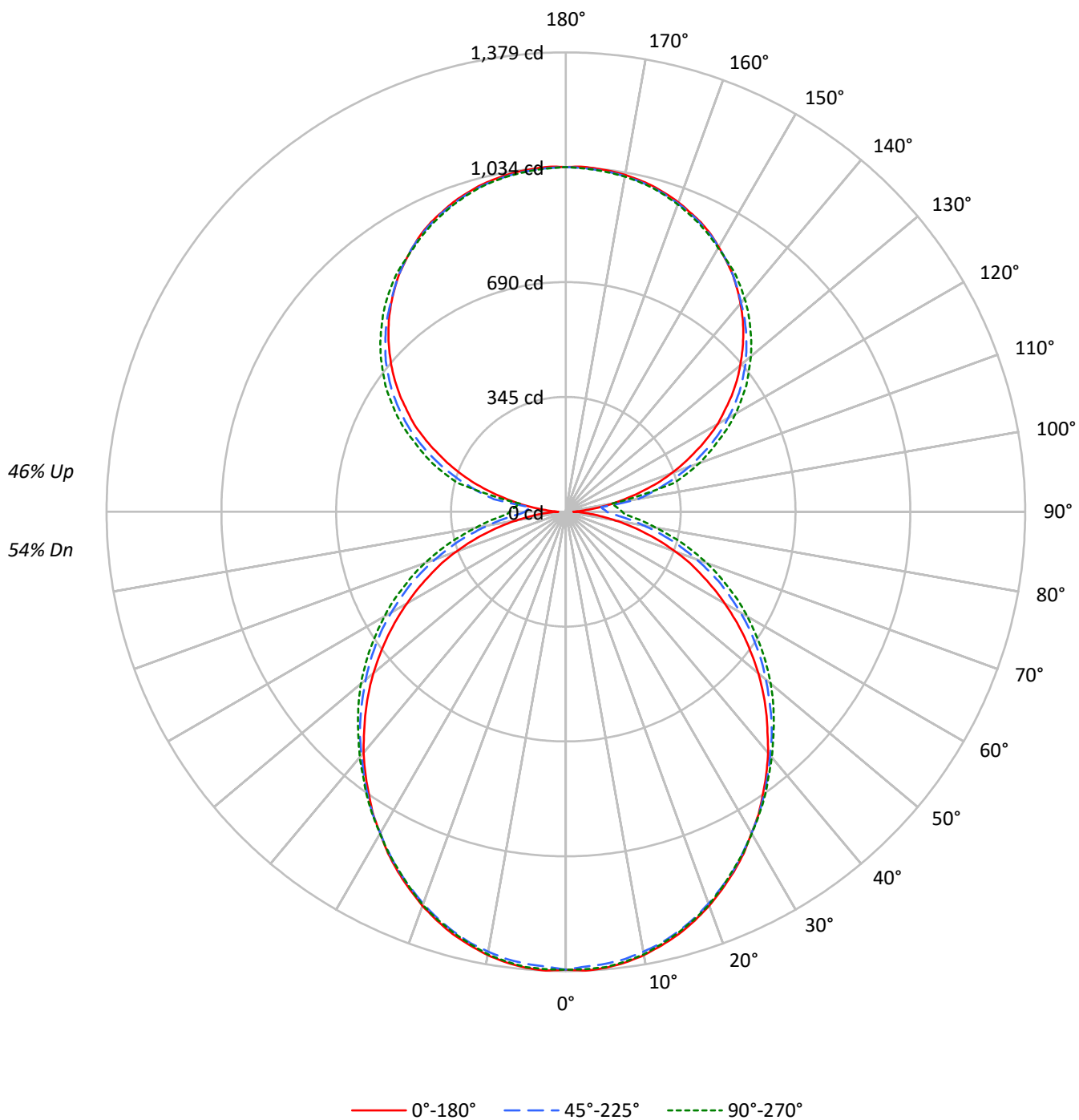
Lumens per Lamp: N/A
Luminaire Lumens: 7438.0 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.9
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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	60	60	60
1	98	93	89	85	90	86	83	79	74	71	69	62	60	58	51	50	49
2	89	81	74	69	82	75	69	65	64	60	56	54	51	48	45	42	40
3	81	71	63	57	74	66	59	54	56	51	47	48	44	40	39	37	34
4	74	63	54	48	68	58	51	45	50	44	40	42	38	34	35	32	29
5	68	56	47	41	62	52	44	39	45	39	34	38	33	30	32	28	25
6	62	50	41	35	57	46	39	34	40	34	30	34	29	26	29	25	22
7	58	45	37	31	53	42	35	29	36	30	26	31	26	23	26	22	20
8	53	41	33	27	49	38	31	26	33	27	23	28	24	20	24	20	18
9	50	37	30	24	46	35	28	23	30	25	21	26	22	18	22	18	16
10	46	34	27	22	43	32	25	21	28	22	19	24	20	16	20	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8807	8807	8807
5°	8821	8622	8643
10°	8755	8446	8422
15°	8648	8241	8150
20°	8504	7994	7880
25°	8334	7731	7554
30°	8127	7445	7257
35°	7935	7180	6984
40°	7738	6902	6708
45°	7517	6661	6460
50°	7304	6399	6236
55°	7049	6149	5976
60°	6770	5864	5709
65°	6477	5564	5409
70°	6142	5162	5097
75°	5615	4765	4716
80°	4922	4282	4295
85°	4237	3899	4073

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 7517 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	1.7
10°-20°	369.2	5.0
20°-30°	549.1	7.4
30°-40°	650.3	8.7
40°-50°	672.3	9.0
50°-60°	619.3	8.3
60°-70°	500.6	6.7
70°-80°	335.0	4.5
80°-90°	174.7	2.3
90°-100°	132.7	1.8
100°-110°	305.4	4.1
110°-120°	468.6	6.3
120°-130°	567.0	7.6
130°-140°	592.5	8.0
140°-150°	547.2	7.4
150°-160°	440.7	5.9
160°-170°	285.0	3.8
170°-180°	98.3	1.3
0°-30°	1048.4	14.1
0°-40°	1698.6	22.8
0°-60°	2990.2	40.2
0°-90°	4000.5	53.8
90°-120°	906.7	12.2
90°-150°	2613.5	35.1
90°-180°	3438.0	46.2
0°-180°	7438.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1374	1374	1374	1374	1374	
5°	1374	1372	1362	1373	1372	130
15°	1312	1314	1304	1312	1307	370
25°	1193	1197	1188	1194	1187	549
35°	1032	1042	1038	1042	1042	646
45°	850	865	872	881	883	656
55°	654	675	697	712	717	584
65°	450	481	513	534	539	447
75°	248	283	326	353	360	263
85°	74	119	166	195	206	77
90°	22	72	123	158	169	17
95°	61	94	111	144	154	67
105°	238	262	303	330	338	252
115°	432	445	481	502	505	428
125°	608	612	638	657	661	542
135°	754	757	765	781	783	581
145°	872	872	872	880	880	545
155°	959	954	956	958	952	442
165°	1012	1007	1008	1012	1006	286
175°	1035	1030	1031	1037	1030	99
180°	1035	1035	1035	1035	1035	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1374.5	1374.5	1374.5	1374.5	1374.5
2.5°	1378.6	1375.9	1366.4	1375.9	1374.5
5°	1374.5	1371.8	1362.4	1373.2	1371.8
7.5°	1365.1	1363.7	1354.3	1363.7	1362.4
10°	1351.6	1351.6	1340.8	1350.3	1348.9
12.5°	1332.7	1334.1	1326.0	1332.7	1328.7
15°	1312.5	1313.9	1304.4	1312.5	1307.1
17.5°	1286.9	1289.6	1280.2	1286.9	1282.9
20°	1258.6	1261.3	1251.9	1255.9	1255.9
22.5°	1226.3	1231.7	1220.9	1226.3	1222.2
25°	1192.6	1196.6	1188.5	1193.9	1187.2
27.5°	1156.2	1161.6	1152.2	1156.2	1153.5
30°	1114.4	1122.5	1114.4	1117.1	1115.8
32.5°	1076.7	1083.4	1078.0	1080.7	1079.4
35°	1032.2	1041.7	1037.6	1041.7	1041.7
37.5°	989.1	997.2	995.8	1001.2	999.9
40°	944.6	955.4	954.1	959.5	962.2
42.5°	896.1	911.0	915.0	921.7	921.7
45°	850.3	865.1	871.9	881.3	882.7
47.5°	803.1	816.6	827.4	840.9	843.6
50°	754.6	769.5	784.3	799.1	803.1
52.5°	703.4	722.3	741.2	757.3	760.0
55°	653.6	675.1	696.7	711.5	716.9
57.5°	602.4	628.0	652.2	668.4	672.4
60°	551.2	578.1	605.1	625.3	629.3
62.5°	501.3	528.2	557.9	580.8	586.2
65°	450.1	481.1	513.4	533.6	539.0
67.5°	402.9	432.6	464.9	489.2	495.9
70°	350.4	381.4	416.4	442.0	450.1
72.5°	299.2	331.5	370.6	398.9	404.3
75°	248.0	283.0	326.1	353.1	359.8
77.5°	198.1	238.5	278.9	308.6	314.0
80°	152.3	192.7	238.5	268.2	273.6
82.5°	110.5	153.6	200.8	229.1	239.9
85°	74.1	118.6	165.8	195.4	206.2
87.5°	47.2	90.3	136.1	167.1	176.5
90°	22.4	71.6	122.8	157.6	169.3
92.5°	33.5	65.6	117.4	150.9	161.1
95°	61.2	94.0	110.7	144.1	153.6
97.5°	98.3	135.2	106.8	136.6	146.8
100°	142.9	173.5	219.7	133.7	138.7
102.5°	188.4	217.1	260.4	288.8	232.5
105°	237.6	262.3	302.7	329.7	338.3
107.5°	288.5	307.3	347.9	375.7	380.7
110°	337.7	353.9	393.1	416.4	426.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	385.2	399.7	436.8	458.0	465.9
115°	431.5	444.7	480.6	501.7	505.2
117.5°	480.0	486.8	523.5	541.8	549.7
120°	526.0	529.3	562.6	584.0	588.2
122.5°	565.3	570.5	600.9	620.9	624.4
125°	607.5	611.5	638.5	657.0	661.4
127.5°	646.8	649.3	671.4	690.1	692.1
130°	683.6	686.1	705.8	722.3	725.3
132.5°	719.1	723.7	734.9	753.7	755.3
135°	753.6	756.8	764.8	780.8	782.9
137.5°	785.8	789.0	792.9	809.1	810.7
140°	815.9	817.4	818.1	834.4	835.2
142.5°	844.3	843.7	845.3	857.4	858.2
145°	871.9	872.1	872.1	879.6	880.4
147.5°	895.1	895.1	895.9	899.4	896.7
150°	918.1	916.6	918.1	919.7	914.8
152.5°	940.4	936.5	938.1	939.6	934.2
155°	958.8	954.2	955.7	958.0	951.9
157.5°	973.4	971.1	971.1	973.4	967.2
160°	988.7	984.1	984.9	987.9	981.8
162.5°	1001.0	996.4	997.1	1001.7	994.8
165°	1011.7	1007.1	1007.9	1012.5	1006.3
167.5°	1020.2	1015.6	1016.3	1021.7	1014.8
170°	1027.1	1021.7	1022.5	1028.6	1021.7
172.5°	1031.7	1026.3	1027.8	1033.2	1026.3
175°	1034.7	1030.1	1030.9	1037.0	1030.1
177.5°	1037.0	1032.4	1033.2	1038.6	1032.4
180°	1034.7	1034.7	1034.7	1034.7	1034.7

(END OF REPORT)