

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: P1027327

Luminaire Tested: S125DIP-B1090D1090UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027327
REPORT IS A COMBINATION OF REPORTS P1001257 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D1090UB35-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

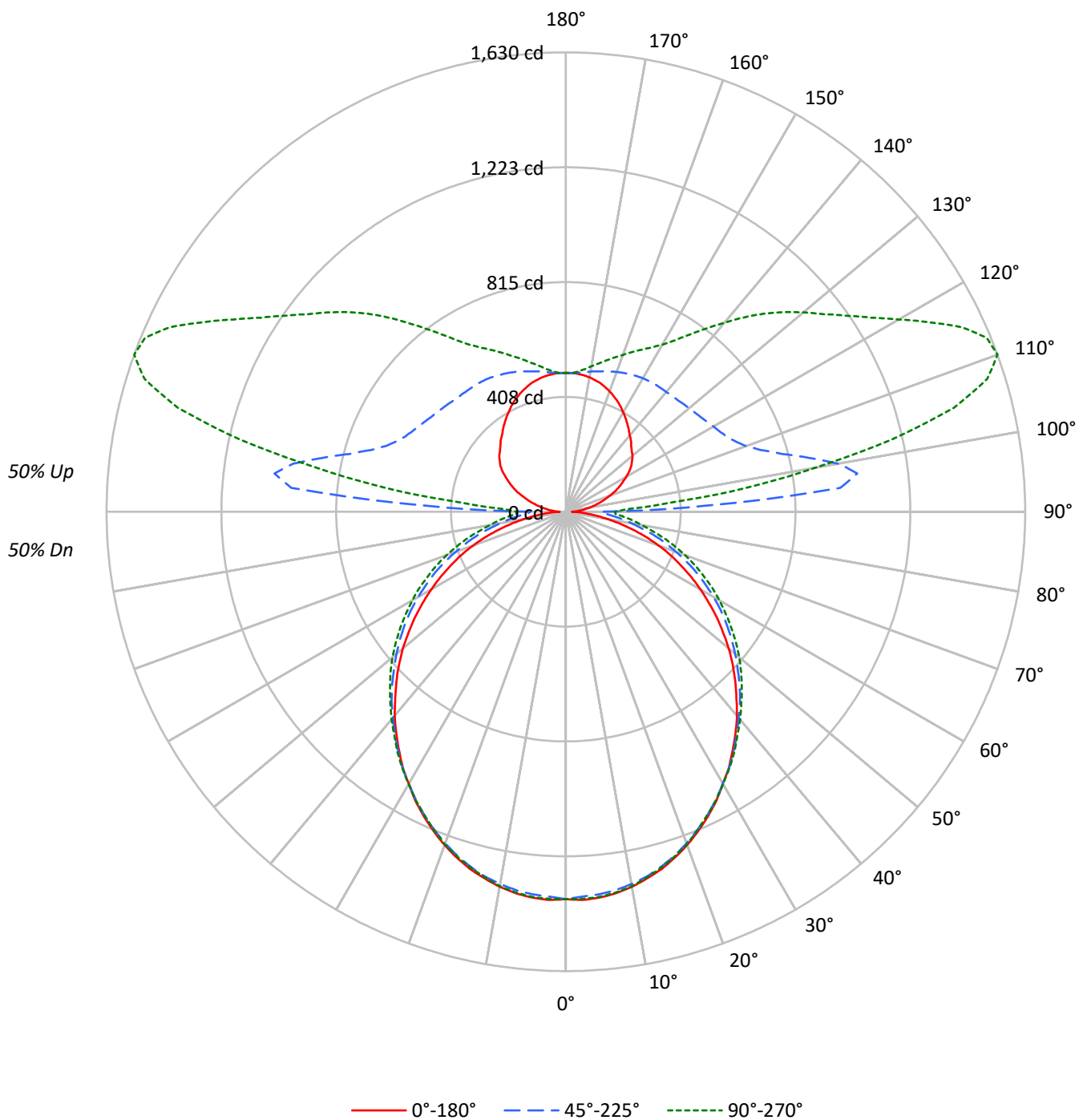
Lumens per Lamp: N/A
Luminaire Lumens: 7965.6 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	56	56	50
1	97	92	88	84	89	85	82	78	72	69	67	60	58	56	49	47	46	46	46	41
2	88	80	74	68	81	74	69	64	63	59	55	52	49	46	42	40	38	38	38	34
3	80	70	63	57	74	65	58	53	55	50	46	46	42	39	37	35	32	32	32	28
4	73	62	54	48	67	57	50	45	49	43	39	41	37	33	33	30	28	28	28	24
5	67	55	47	41	62	51	44	38	44	38	33	36	32	29	30	27	24	24	24	21
6	62	49	41	35	57	46	38	33	39	33	29	33	28	25	27	24	21	21	21	18
7	57	45	36	31	52	41	34	29	35	30	25	30	25	22	25	21	19	19	19	16
8	53	40	33	27	49	38	31	26	32	27	23	27	23	20	23	19	17	17	17	14
9	49	37	29	24	45	34	28	23	30	24	20	25	21	18	21	17	15	15	15	13
10	46	34	26	22	42	32	25	20	27	22	18	23	19	16	19	16	14	14	14	12

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	1.6
10°-20°	369.2	4.6
20°-30°	549.1	6.9
30°-40°	650.3	8.2
40°-50°	672.3	8.4
50°-60°	619.3	7.8
60°-70°	500.6	6.3
70°-80°	335.0	4.2
80°-90°	175.1	2.2
90°-100°	468.3	5.9
100°-110°	842.0	10.6
110°-120°	767.5	9.6
120°-130°	609.3	7.6
130°-140°	479.6	6.0
140°-150°	355.4	4.5
150°-160°	248.5	3.1
160°-170°	146.5	1.8
170°-180°	47.6	0.6
0°-30°	1048.4	13.2
0°-40°	1698.6	21.3
0°-60°	2990.2	37.5
0°-90°	4000.9	50.2
90°-120°	2077.8	26.1
90°-150°	3522.0	44.2
90°-180°	3965.0	49.8
0°-180°	7965.6	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°	23	74	126	162	174	17
95°	50	149	978	527	371	48
105°	124	190	794	1518	1426	131
115°	209	259	630	1322	1550	205
125°	283	330	585	1043	1214	251
135°	328	393	561	859	994	255
145°	380	434	552	694	768	238
155°	433	466	538	608	634	199
165°	472	485	516	547	556	133
175°	491	491	495	501	499	47
180°	492	492	492	492	492	

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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°	22.6	73.6	126.4	162.4	173.7
92.5°	33.8	139.3	501.2	240.5	217.7
95°	50.3	149.4	977.9	527.0	370.8
97.5°	66.8	153.2	1043.0	842.0	641.9
100°	84.3	163.2	982.6	1132.9	896.9
102.5°	103.8	176.6	883.0	1378.4	1184.0
105°	124.3	190.5	793.8	1518.1	1425.8
107.5°	143.8	206.8	726.8	1553.9	1568.0
110°	165.2	224.1	680.7	1507.9	1630.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	188.1	241.5	651.5	1419.3	1615.3
115°	208.6	259.2	630.3	1322.1	1550.0
117.5°	227.1	277.6	616.0	1232.0	1456.3
120°	246.9	296.2	604.6	1156.6	1364.2
122.5°	266.5	312.9	594.3	1093.7	1282.0
125°	283.3	329.6	584.9	1043.2	1213.7
127.5°	295.8	347.2	577.5	997.8	1151.8
130°	308.7	365.0	571.5	953.2	1100.4
132.5°	317.4	380.9	566.1	905.6	1048.9
135°	328.3	392.9	560.7	858.6	993.9
137.5°	342.2	405.3	557.6	811.0	935.6
140°	352.7	415.7	554.6	767.0	875.6
142.5°	366.6	424.4	552.9	728.3	819.6
145°	380.5	434.3	551.9	694.1	768.5
147.5°	394.1	443.2	549.9	665.3	721.1
150°	407.0	451.2	546.9	642.2	684.2
152.5°	420.9	459.1	543.0	624.8	657.1
155°	432.8	465.6	538.0	608.0	634.3
157.5°	443.7	472.0	533.0	592.1	613.5
160°	454.6	477.0	528.1	576.2	592.6
162.5°	463.6	482.0	522.1	561.8	573.7
165°	472.5	485.4	516.2	547.4	555.9
167.5°	478.5	487.4	510.2	534.0	539.0
170°	484.4	489.9	505.3	521.1	524.1
172.5°	488.4	490.9	499.3	510.7	510.2
175°	491.4	491.4	495.3	501.3	499.3
177.5°	493.3	491.4	492.4	495.3	492.4
180°	492.4	492.4	492.4	492.4	492.4

(END OF REPORT)