

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: P1009186

Luminaire Tested: S122DIP-B485D925UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009186
REPORT IS A COMBINATION OF REPORTS P984394 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D925UB35-4F0-XX-W2A-D
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

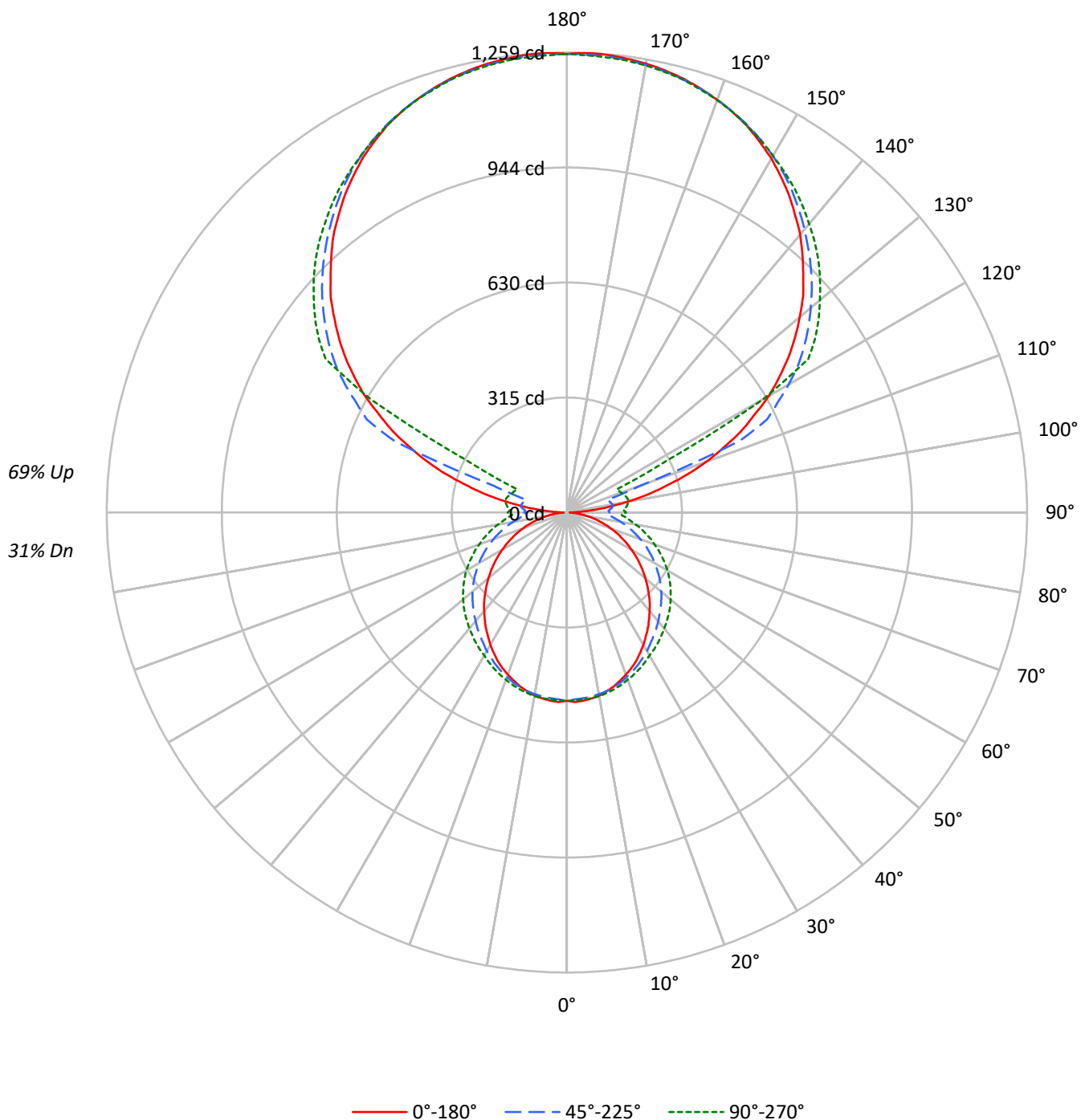
Lumens per Lamp: N/A
Luminaire Lumens: 5648.0 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39
1	93	88	84	80	83	79	76	72	62	60	58	47	45	44	33	32	31
2	84	76	70	65	75	69	63	59	54	50	47	41	38	36	28	27	25
3	76	67	59	53	68	60	54	48	47	43	39	36	32	30	25	23	21
4	70	59	51	45	62	53	46	41	42	37	33	31	28	25	22	20	18
5	64	52	44	38	57	47	40	35	37	32	28	28	24	22	20	17	15
6	58	46	38	33	52	42	35	30	33	28	24	25	22	19	18	15	13
7	54	42	34	28	48	38	31	26	30	25	21	23	19	16	16	14	12
8	50	38	30	25	45	34	27	23	27	22	19	21	17	14	15	12	10
9	46	34	27	22	41	31	25	20	25	20	16	19	15	13	14	11	9
10	43	31	24	19	39	28	22	18	23	18	15	17	14	12	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8160	8160	8160
5°	8197	7812	7768
10°	8142	7541	7431
15°	8027	7262	7087
20°	7883	6968	6758
25°	7740	6686	6461
30°	7539	6400	6167
35°	7336	6125	5951
40°	7122	5886	5736
45°	6919	5670	5549
50°	6701	5470	5365
55°	6470	5260	5177
60°	6190	5039	4979
65°	5898	4784	4752
70°	5565	4513	4508
75°	5141	4240	4276
80°	4471	3958	4036
85°	3800	3690	3831

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6919 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	0.9
10°-20°	140.2	2.5
20°-30°	212.4	3.8
30°-40°	258.6	4.6
40°-50°	278.2	4.9
50°-60°	270.2	4.8
60°-70°	236.0	4.2
70°-80°	181.6	3.2
80°-90°	123.8	2.2
90°-100°	125.3	2.2
100°-110°	215.5	3.8
110°-120°	449.5	8.0
120°-130°	701.0	12.4
130°-140°	730.2	12.9
140°-150°	671.4	11.9
150°-160°	538.5	9.5
160°-170°	347.0	6.1
170°-180°	119.4	2.1
0°-30°	401.4	7.1
0°-40°	660.0	11.7
0°-60°	1208.5	21.4
0°-90°	1749.9	31.0
90°-120°	790.4	14.0
90°-150°	2893.0	51.2
90°-180°	3898.0	69.0
0°-180°	5648.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	516	516	516	516	516	
5°	517	515	510	515	514	49
15°	493	495	495	501	501	139
25°	448	454	460	469	471	206
35°	386	399	413	430	435	241
45°	317	337	363	386	394	245
55°	243	270	309	336	345	217
65°	166	202	246	277	287	165
75°	92	134	182	214	223	97
85°	27	73	121	152	163	28
90°	8	62	117	151	162	9
95°	65	70	121	154	162	75
105°	280	329	120	156	168	299
115°	525	549	605	207	150	517
125°	740	752	793	819	829	660
135°	914	929	944	969	973	706
145°	1060	1059	1074	1085	1084	663
155°	1167	1159	1170	1175	1168	538
165°	1229	1224	1227	1233	1227	347
175°	1258	1251	1253	1259	1250	120
180°	1255	1255	1255	1255	1255	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	515.5	515.5	515.5	515.5	515.5
2.5°	519.2	517.0	511.8	515.5	514.0
5°	517.0	514.8	510.3	514.8	514.0
7.5°	513.3	511.8	508.0	513.3	512.5
10°	508.8	507.3	505.0	511.0	510.3
12.5°	501.3	502.1	500.6	506.5	505.8
15°	493.1	494.6	494.6	501.3	500.6
17.5°	482.6	485.6	487.9	494.6	494.6
20°	472.2	475.9	478.9	487.1	487.1
22.5°	461.0	465.5	469.9	478.2	479.6
25°	448.3	453.5	460.2	469.2	471.4
27.5°	433.3	441.5	449.0	460.2	461.7
30°	418.4	428.1	437.8	449.8	452.0
32.5°	401.9	413.2	425.1	439.3	443.8
35°	386.3	399.0	413.2	429.6	434.8
37.5°	369.1	383.3	401.2	419.1	424.4
40°	351.9	368.3	388.5	407.9	414.6
42.5°	335.5	351.9	375.8	397.5	404.2
45°	316.8	336.9	363.1	386.3	393.7
47.5°	298.8	320.5	350.4	374.3	382.5
50°	280.2	303.3	336.9	362.4	370.6
52.5°	262.2	286.9	322.8	348.9	357.9
55°	242.8	269.7	308.6	335.5	345.2
57.5°	224.1	254.0	292.9	322.0	331.7
60°	204.0	236.1	278.7	307.1	317.5
62.5°	186.0	219.7	262.2	292.9	302.6
65°	165.9	202.5	246.5	277.2	286.9
67.5°	147.9	186.0	230.9	261.5	271.9
70°	128.5	167.4	213.7	245.8	254.8
72.5°	110.6	150.9	198.0	229.4	240.6
75°	91.9	133.7	181.5	213.7	223.4
77.5°	74.0	117.3	165.9	198.0	208.4
80°	56.0	101.6	150.2	181.5	192.0
82.5°	41.1	85.9	135.2	166.6	176.3
85°	26.9	73.2	121.0	152.4	162.9
87.5°	16.4	61.3	109.1	139.7	149.4
90°	8.4	61.7	116.8	151.2	162.0
92.5°	29.4	65.4	113.7	144.6	154.5
95°	65.0	70.2	121.3	154.3	162.3
97.5°	111.4	69.2	127.0	157.3	167.2
100°	165.9	69.2	126.5	161.4	171.4
102.5°	225.1	247.9	123.1	160.0	170.9
105°	279.7	328.7	119.7	155.8	167.6
107.5°	344.2	384.9	116.2	151.6	163.4
110°	405.2	439.2	213.4	146.5	158.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	463.4	491.6	510.6	143.1	154.0
115°	525.1	548.7	605.0	207.0	150.0
117.5°	577.9	602.0	648.9	541.4	311.0
120°	637.8	654.4	700.7	732.5	618.2
122.5°	688.6	704.0	749.7	775.4	783.0
125°	739.7	751.5	792.7	819.2	828.6
127.5°	786.9	798.8	832.7	860.4	868.0
130°	831.4	845.1	870.8	898.8	903.8
132.5°	876.8	887.8	909.1	934.4	939.5
135°	914.1	928.7	944.3	969.1	973.3
137.5°	954.1	965.0	977.9	1001.2	1003.6
140°	993.1	999.7	1011.2	1031.3	1031.2
142.5°	1025.8	1031.5	1043.3	1059.6	1058.7
145°	1059.6	1058.7	1074.2	1085.0	1084.2
147.5°	1089.6	1086.9	1102.3	1107.6	1106.2
150°	1118.7	1112.3	1126.8	1132.3	1127.7
152.5°	1143.2	1135.9	1149.5	1155.0	1148.6
155°	1166.8	1158.6	1169.5	1175.0	1167.7
157.5°	1185.8	1178.6	1186.8	1193.1	1185.8
160°	1202.2	1196.7	1202.2	1207.6	1201.3
162.5°	1216.7	1211.3	1215.8	1222.2	1214.0
165°	1229.4	1224.0	1226.7	1233.1	1226.7
167.5°	1239.4	1234.0	1236.7	1243.1	1234.9
170°	1247.6	1242.1	1244.0	1250.3	1242.1
172.5°	1253.0	1247.6	1249.4	1255.8	1247.6
175°	1257.6	1251.2	1253.0	1259.4	1250.3
177.5°	1259.4	1253.0	1253.9	1260.3	1252.1
180°	1254.9	1254.9	1254.9	1254.9	1254.9

(END OF REPORT)