

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: P1009630

Luminaire Tested: S122DIP-B865D925UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009630
REPORT IS A COMBINATION OF REPORTS P984994 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D925UB35-4F0-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

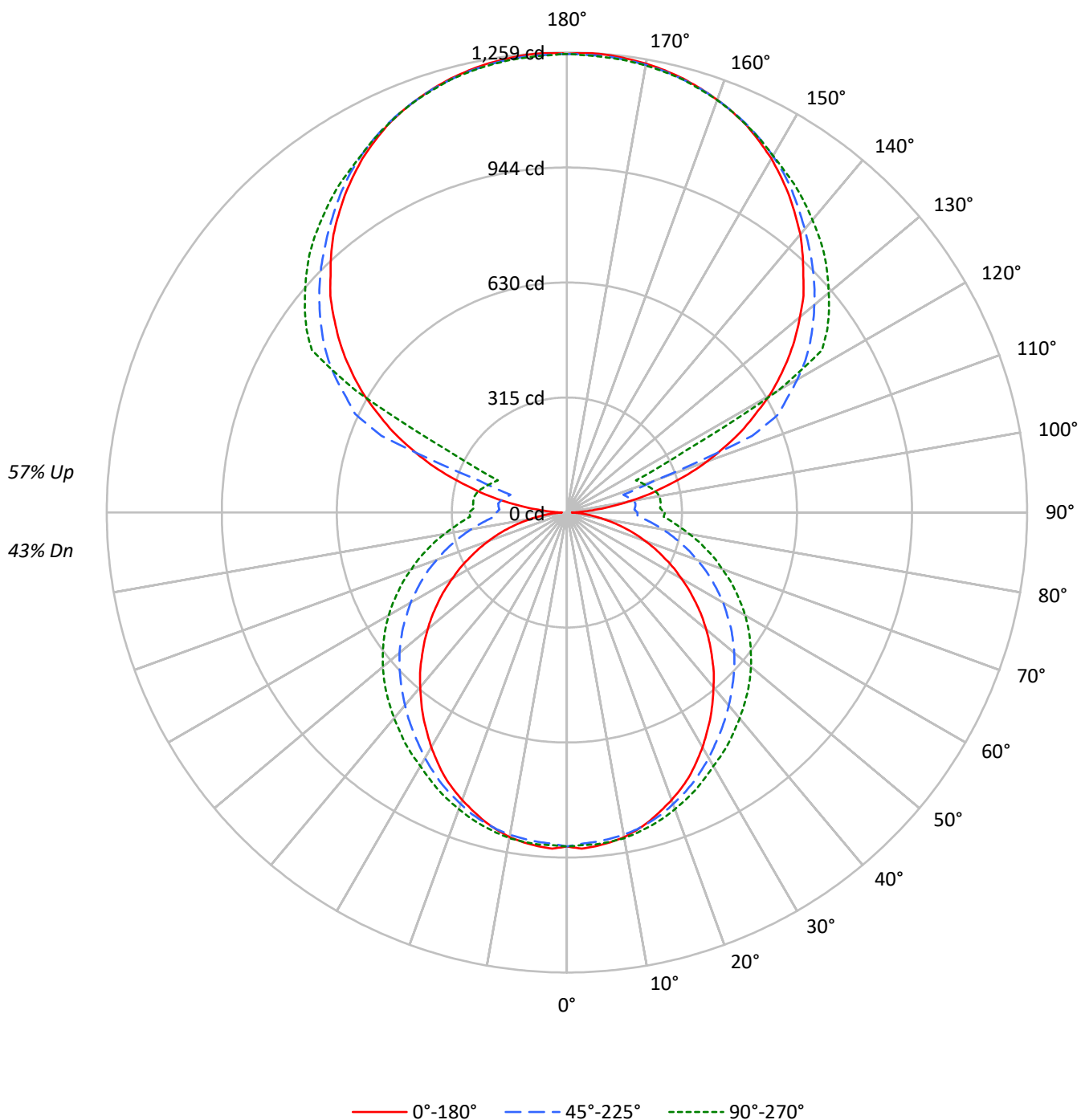
Lumens per Lamp: N/A
Luminaire Lumens: 7169.0 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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				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	96	96	96	96	80	80	80	64	64	64	50	50	50
1	95	90	86	82	86	82	79	75	68	65	63	54	52	51	42	41	40
2	86	78	71	66	78	71	66	61	59	54	51	47	44	41	36	34	32
3	78	68	60	54	71	62	55	50	51	46	42	41	37	34	32	29	27
4	71	60	52	45	65	55	48	42	45	40	35	36	32	29	28	25	23
5	65	53	45	39	59	49	41	36	40	35	30	32	28	25	25	22	20
6	60	47	39	33	54	44	36	31	36	30	26	29	25	22	23	20	17
7	55	43	35	29	50	39	32	27	33	27	23	26	22	19	21	18	15
8	51	39	31	25	47	36	29	24	30	24	20	24	20	17	19	16	13
9	48	35	28	22	43	32	26	21	27	22	18	22	18	15	17	14	12
10	44	32	25	20	40	30	23	19	25	20	16	20	16	13	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14470	14470	14470
5°	14536	13853	13775
10°	14438	13373	13178
15°	14234	12876	12565
20°	13977	12355	11985
25°	13723	11856	11458
30°	13368	11348	10936
35°	13007	10860	10552
40°	12629	10437	10173
45°	12268	10054	9841
50°	11880	9701	9513
55°	11474	9326	9180
60°	10976	8935	8830
65°	10455	8485	8425
70°	9870	8002	7993
75°	9118	7519	7581
80°	7936	7018	7158
85°	6738	6544	6791

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12268 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	1.2
10°-20°	248.5	3.5
20°-30°	376.6	5.3
30°-40°	458.6	6.4
40°-50°	493.4	6.9
50°-60°	479.2	6.7
60°-70°	418.5	5.8
70°-80°	322.1	4.5
80°-90°	217.9	3.0
90°-100°	190.2	2.7
100°-110°	262.9	3.7
110°-120°	480.8	6.7
120°-130°	718.5	10.0
130°-140°	737.5	10.3
140°-150°	672.7	9.4
150°-160°	538.5	7.5
160°-170°	347.0	4.8
170°-180°	119.4	1.7
0°-30°	711.8	9.9
0°-40°	1170.4	16.3
0°-60°	2142.9	29.9
0°-90°	3101.3	43.3
90°-120°	934.0	13.0
90°-150°	3062.6	42.7
90°-180°	4068.0	56.7
0°-180°	7169.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	914	914	914	914	914	
5°	917	913	905	913	912	87
15°	874	877	877	889	888	246
25°	795	804	816	832	836	366
35°	685	708	733	762	771	428
45°	562	598	644	685	698	434
55°	431	478	547	595	612	385
65°	294	359	437	492	509	292
75°	163	237	322	379	396	172
85°	48	130	215	270	289	50
90°	14	101	193	251	268	13
95°	70	102	188	243	258	78
105°	283	348	169	226	244	302
115°	527	557	640	259	208	519
125°	741	753	812	854	869	661
135°	915	929	951	988	996	707
145°	1060	1059	1074	1088	1091	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°	914.1	914.1	914.1	914.1	914.1
2.5°	920.8	916.8	907.5	914.1	911.5
5°	916.8	912.8	904.9	912.8	911.5
7.5°	910.2	907.5	900.9	910.2	908.8
10°	902.2	899.6	895.6	906.2	904.9
12.5°	889.0	890.3	887.6	898.2	896.9
15°	874.4	877.0	877.0	889.0	887.6
17.5°	855.8	861.1	865.1	877.0	877.0
20°	837.3	843.9	849.2	863.8	863.8
22.5°	817.4	825.4	833.3	847.9	850.5
25°	794.9	804.2	816.1	832.0	836.0
27.5°	768.4	783.0	796.2	816.1	818.7
30°	741.9	759.1	776.3	797.5	801.5
32.5°	712.8	732.6	753.8	779.0	786.9
35°	684.9	707.5	732.6	761.8	771.0
37.5°	654.5	679.6	711.4	743.2	752.5
40°	624.0	653.1	688.9	723.4	735.3
42.5°	594.8	624.0	666.4	704.8	716.7
45°	561.7	597.5	643.9	684.9	698.2
47.5°	529.9	568.4	621.3	663.7	678.3
50°	496.8	537.9	597.5	642.5	657.1
52.5°	465.0	508.7	572.3	618.7	634.6
55°	430.6	478.3	547.2	594.8	612.1
57.5°	397.4	450.4	519.3	571.0	588.2
60°	361.7	418.6	494.2	544.5	563.1
62.5°	329.9	389.5	465.0	519.3	536.6
65°	294.1	359.0	437.2	491.5	508.7
67.5°	262.3	329.9	409.4	463.7	482.2
70°	227.9	296.8	378.9	435.9	451.8
72.5°	196.1	267.6	351.1	406.7	426.6
75°	163.0	237.1	321.9	378.9	396.1
77.5°	131.2	208.0	294.1	351.1	369.6
80°	99.4	180.2	266.3	321.9	340.5
82.5°	72.9	152.4	239.8	295.4	312.7
85°	47.7	129.8	214.6	270.3	288.8
87.5°	29.1	108.6	193.4	247.7	265.0
90°	14.1	101.0	193.1	250.6	268.3
92.5°	34.6	101.2	184.8	238.2	255.0
95°	69.6	102.0	187.8	242.7	257.6
97.5°	115.5	98.0	189.4	241.1	257.9
100°	170.0	94.6	184.3	240.5	256.9
102.5°	228.5	270.5	176.8	234.5	251.8
105°	282.6	348.3	169.3	225.7	243.9
107.5°	347.1	401.6	161.9	216.9	235.1
110°	407.5	453.1	255.6	207.2	225.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	465.7	503.2	548.7	199.7	217.0
115°	527.4	557.4	639.7	259.0	208.3
117.5°	579.7	608.4	679.5	589.4	364.7
120°	639.6	658.5	727.9	775.9	667.8
122.5°	690.4	706.3	773.4	814.7	827.5
125°	740.8	752.6	812.3	854.4	869.0
127.5°	788.0	799.4	848.9	891.0	903.8
130°	832.5	845.7	883.5	925.3	935.0
132.5°	877.9	888.4	918.3	957.0	966.7
135°	914.7	929.3	950.7	987.6	996.4
137.5°	954.7	965.6	981.3	1015.6	1022.1
140°	993.7	999.7	1012.3	1041.7	1045.1
142.5°	1026.4	1031.5	1043.3	1066.5	1068.5
145°	1059.6	1058.7	1074.2	1088.4	1090.6
147.5°	1089.6	1086.9	1102.3	1108.2	1108.5
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)