Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: 9057.0

Luminaire Tested: **16DIP/3 (BTM LAMP ONLY)**

Issue Date: 3/3/2020

Report Generated By E9808136 / USAU2WHP6039969

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-41-14
Report Number:	9057.0
Test Lab:	
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	NEO-RAY
Catalog Number:	16DIP/3 (BTM LAMP ONLY)
Description:	3/32W T8 4'PENDANT LUMINAIRE w/WHITE REFL IN OPEN TOP PERF SIDES w/OVERLAY, 16-CELL SATIN PARAB LOUVER-DWN
Light Source:	F32T8/735/RS
Ballast/Driver:	ENERGY SAVINGS #ES-1-T8-32-120-A

Summary

Lumens per Lamp:	2850 (1 lamp)
Luminaire Lumens:	1361.0 lumens
Efficiency:	47.8%
Efficacy:	38.9 lumens/watt
Spacing Criteria (0/90/45):	1.19 / 1.24 / 1.25
Luminous Opening:	Rectangular w/ Sides (W: 1' x L: 4' x H: 0.33')
CIE Type:	Direct

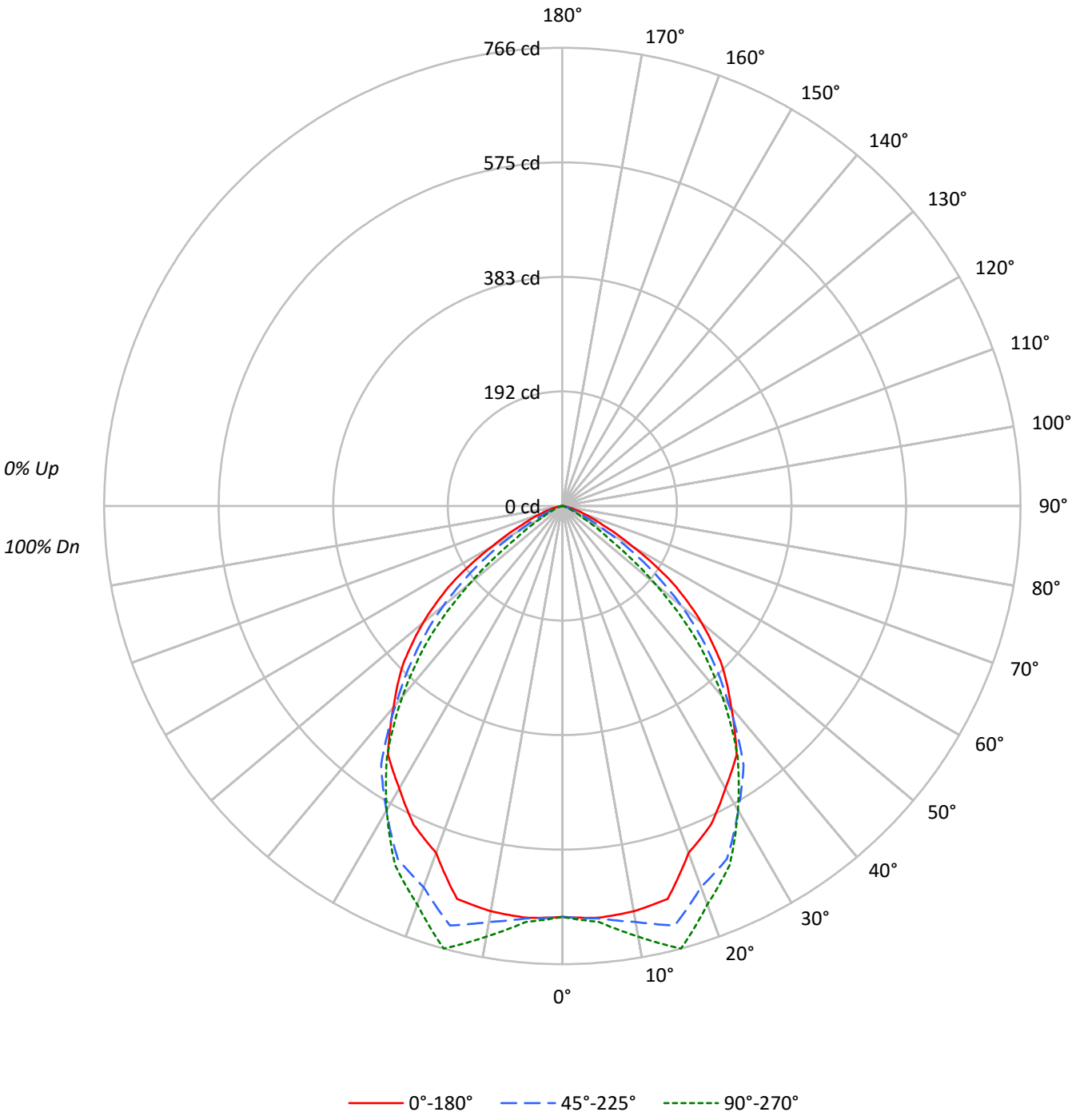
Input Watts (W):	35
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: 9057.0
CATALOG NUMBER: 16DIP/3 (BTM LAMP ONLY)

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: 9057.0
CATALOG NUMBER: 16DIP/3 (BTM LAMP ONLY)

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	57	57	57	57	56	56	56	56	53	53	53	51	51	51	49	49	49	48
1	53	52	50	49	52	51	49	48	49	48	46	47	46	45	45	44	44	43
2	50	47	44	42	49	46	43	42	44	42	41	43	41	40	41	40	39	38
3	46	42	39	37	45	41	39	36	40	38	36	39	37	35	38	36	34	34
4	43	38	35	32	42	38	34	32	36	34	31	35	33	31	34	32	31	30
5	40	35	31	28	39	34	31	28	33	30	28	32	30	28	32	29	27	27
6	37	32	28	25	36	31	28	25	30	27	25	30	27	25	29	27	25	24
7	35	29	25	23	34	29	25	23	28	25	23	27	25	22	27	24	22	22
8	32	27	23	21	32	26	23	21	26	23	21	25	22	20	25	22	20	19
9	30	25	21	19	30	24	21	19	24	21	19	23	21	19	23	20	19	18
10	29	23	20	17	28	23	19	17	22	19	17	22	19	17	21	19	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1849	1849	1849
5°	1853	1822	1832
10°	1853	1834	1887
15°	1853	1875	1959
20°	1715	1754	1811
25°	1681	1700	1701
30°	1616	1562	1530
35°	1577	1438	1361
40°	1441	1220	1142
45°	1328	1020	908
50°	1158	806	608
55°	948	565	296
60°	640	310	140
65°	394	141	71
70°	250	70	41
75°	151	35	19
80°	74	23	16
85°	47	7	6

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: 9057.0
CATALOG NUMBER: 16DIP/3 (BTM LAMP ONLY)

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	66.6	4.9	2.3
10°-20°	199.8	14.7	7.0
20°-30°	290.8	21.4	10.2
30°-40°	321.7	23.6	11.3
40°-50°	269.8	19.8	9.5
50°-60°	150.9	11.1	5.3
60°-70°	46.8	3.4	1.6
70°-80°	12.1	0.9	0.4
80°-90°	2.2	0.2	0.1
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	557.3	40.9	19.6
0°-40°	879.0	64.6	30.8
0°-60°	1299.8	95.5	45.6
0°-90°	1361.0	100.0	47.8
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	1361.0	100.0	47.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	687	687	687	687	687	
5°	691	691	692	697	698	66
15°	680	692	726	755	766	188
25°	588	616	651	655	662	270
35°	508	545	528	507	511	313
45°	378	400	347	318	318	289
55°	226	220	171	111	93	199
65°	73	59	36	22	19	79
75°	19	16	7	6	4	22
85°	3	3	1	1	1	4
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: 9057.0
CATALOG NUMBER: 16DIP/3 (BTM LAMP ONLY)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	687	687	687	687	*687*
5°	691	691	692	697	*698*
10°	688	692	706	724	*731*
15°	*680*	*692*	*726*	*755*	*766*
20°	617	634	678	705	*709*
25°	588	616	651	655	*662*
30°	545	580	588	580	*587*
35°	508	545	528	507	*511*
40°	439	473	433	404	*416*
45°	378	400	347	318	*318*
50°	304	311	260	216	*203*
55°	226	220	171	111	*93*
60°	136	125	87	49	*41*
65°	73	59	36	22	*19*
70°	39	32	16	12	*10*
75°	19	16	7	6	*4*
80°	7	7	4	3	*3*
85°	3	3	1	1	*1*
90°	0	0	0	0	*0*

(END OF REPORT)